RESUME

Dr. Amrit Pal Toor
Dean, Faculty of Engineering & Technology,
Chairperson, Professor,
Dr SSB University Institute of Chemical Engg.& Tech
Honorary Director, Energy Research Centre
Panjab University
Chandigarh

Academic Qualifications

Ph.D. (Chem. Engg.)	Thapar Institute of Engg. & Tech., Patiala, Feb. 2005 *Title of Thesis: Photocatalytic Degradation of Chlorinated Organic Compounds Present in Industrial Wastewater*
M.E. (Chemical)	Panjab University, Chandigarh, 1997, First Division with Distinction
B.E. (Chemical)	Panjab University, Chandigarh, 1989, First Division with Honors

Total Teaching Experience: **32 yrs**

Research Experience: 27 yrs
(Six months at Univ. of Florida)
H-Index –23(Google Scholar)
H-Index –20(Scopus)

Professional Experience

Short Term Research Scholar, **University of Florida, USA**	Jan 2003 to July 2003
Professor University Institute of Chemical Engg. & Tech., Panjab Univ., Chandigarh	Feb 2011 till date
Associate Professor University Institute of Chemical Engg. & Tech., Panjab Univ., Chandigarh	Feb 2008 to Feb2011
Reader University Institute of Chemical Engg. & Tech., Panjab Univ., Chandigarh	Feb 2005 to Feb 2008

Lecturer (Senior Scale), July 2004 to Feb 2005
Department of Chemical Engg. & Tech.,
Panjab Univ., Chandigarh

Asstt. Prof., Nov. 2003 to July 2004
Thapar Institute of Engg. & Tech.,
Patiala

Lecturer (Senior Scale), April 1997 to Nov 2003
Thapar Institute of Engg. & Tech.,
Patiala

Lecturer, Dec 1991 to March 1997
Guru Nanak Dev University,
Amritsar

Asstt. Technical officer, April 1990 to Dec 1991
Central Institute of Plastic Engg. & Tech.,
Amritsar

Field of Specialization
Environment, Waste Water Treatment, Photocatalysis, Energy, Nano materials Chemical Reaction Engineering, Mass Transfer.

Research Projects

1. Project Head, **Technical Education Quality Improvement Progrmme** (TEQIP-III), **MHRD**. 2018-220. **Cost: Rs. 7 Crore**
2. **DST** project titled "Photocatalytic treatment of wastewater entering Sukhna Lake through contaminated rivulets/choe" 2018-2019 (under process). **Cost: Rs. 1 lakh**
3. **Enviornmental Information System (ENVIS),** Ministry of Enviornment, project titled "Removal and recovery of heavy metals from waste water of N. Choe" 2015 (completed).**Cost: Rs. 2 lakh**
4. **UGC Major** project titled "Studies on Ion exchange Resin Catalyzed Esterification Reactions of Pentanoic Acid and Nonanoic Acid with Alcohols", 2010-2013 (completed). Cost: **Rs. 13 lakh**
5. **AICTE** Project titled "Degradation of pesticides in water applying novel methods using ultraviolet radiations and solar energy, 2009-2012 (completed).**Cost: Rs. 10 lakh**
6. **DRDO** project titled "Sonophotocatalytic treatment of pesticides over TiO_2 photocatalyst using immersion well reactor" 2011-2012 (completed). **Cost: Rs. 4 lakh**
7. **UGC MINOR** titled "Photocatalytic Degradation of Chlorolignins Present Effluent from Paper and Pulp Mill" 2000-2001 (completed).**Cost: Rs. 1 lakh**
8. **Ministry of Non-Conventional Energy Sources (MNES)**, project titled "Solar Photocatalytic Detoxification of Industrial Wastewater" 2001-2004 (completed).**Cost: Rs. 5 lakh**

Research Supervised

Ph.D. - Completed: 17
- Ongoing: 8

M.E (Chem) / M.Sc (Indl. Chem.) - Completed: 45
- Ongoing: 6

Conferences/Seminars Organized

1. Organizing Chair of **"International Online Conference on Sustainable Research Technology and Development, 2020",** Under TEQIP III on September 24-25 2020 at Dr. SSBUICET, Panjab University Chandigarh.
2. Organizing Chair of "**Joint International Summer School in collaboration with Stony Brook University, US**", Under TEQIP III from July 8, 2019 to July 26, 2019 conducted at Dr. SSB UICET, Panjab University Chandigarh.
3. Organizing Chair of "**One DayNational Seminar on Sustainable Renewable Energy Generation – Current Scenario**", Under DST PURSE Grant II on March 21, 2015 conducted at Energy Research Centre, Panjab University Chandigarh.
4. Organizing Chair of "**One DayNational Seminar on Environmental Management, Sustainable Development and Human Health**,", Under DST PURSE Grant II on March 25, 2015 conducted at Dr SSBUICET, Panjab University Chandigarh.
5. Organizing Chair of "**Two DayNational Conference on Advanced Oxidation Processes AOP-2015**", Under TEQIP- II on October 15-16, 2015 conducted at Energy Research Centre and Dr SSBUICET, Panjab University Chandigarh.

Publications

Peer Reviewed Journals

1. Beniwal, P., & Toor, A. P. (2023). Advancement in tensile properties of polylactic acid composites reinforced with rice straw fibers. *Industrial Crops and Products*, *192*, 116098.
2. Kaur, M., Charak, A., Sandhu, S., Toor, A. P., & Singh, V. (2023). Biomass-derived graphene modified γ-Fe 2 O 3/N, Fe–TiO 2@ GO: a prolific photoactive material with extended visible to near IR harvesting. *Catalysis Science & Technology*.
3. Pandey, Y., Verma, A., & Toor, A. P. (2023). Abatement of paraquat contaminated water using solar assisted heterogeneous photo-Fenton like treatment with iron-containing industrial wastes as catalysts. *Journal of Environmental Management*, *325*, 116550.

4. Kaur, H., Sobti, A., Wanchoo, R. K., & Toor, A. P. (2022). Experimental study on hydrodynamic behaviour of nanofluid particle moving through an immiscible quiescent liquid. *Results in Engineering*, *16*, 100760.
5. Sharma, M., Beniwal, P., & Toor, A. P. (2022). The effect of rice straw derived microfibrillated cellulose as a reinforcing agent in starch/polyvinyl alcohol/polyethylene glycol biocompatible films. *Materials Chemistry and Physics*, *291*, 126652.
6. Sraw, A., Kaur, T., Thakur, I., Verma, A., Wanchoo, R. K., & Toor, A. P. (2022). Photocatalytic degradation of pesticide monocrotophos in water using W-TiO2 in slurry and fixed bed recirculating reactor. *Journal of Molecular Structure*, *1265*, 133392.
7. Guliani, D., Sobti, A., & Toor, A. P. (2022). Titania impregnated mesoporous MCM-48 as a solid photo-catalyst for the synthesis of methyl palmitate: Reaction mechanism and kinetics. *Renewable Energy*.
8. Verma, P., Wanchoo, R. K., & Toor, A. P. (2022). Plasmonic silver nanoparticles decorated surface functionalized Zirconium doped quantum dots-for enhanced photochemical synthesis of lactic acid esters. *Chemical Engineering Journal*, *430*, 132550.
9. Kaur, M., Sandhu, S., Toor, A. P., & Singh, V. (2022). Time-dependent mechanistic insight into photo-degradation of mixed hydrophobic disperse dyes by magnetically separable nitrogen iron codoped titania under visible light using process variable optimization. *Journal of Cleaner Production*, *342*, 130940.
10. Shashni, S., Singh, V., & Toor, A. P. (2021). High-efficacy glycerol acetalization with silica gel immobilized Bronsted acid ionic liquid catalysts—preparation and comprehending the counter-anion effect on the catalytic activity. *New Journal of Chemistry*, *45*(46), 21807-21823.
11. Kumar, V., Wanchoo, R. K., & Toor, A. P. (2021). Photocatalytic Reduction and Crystallization Hybrid System for Removal and Recovery of Lead (Pb). *Industrial & Engineering Chemistry Research*.
12. Verma, P., Wanchoo, R. K., & Toor, A. P. (2021). A Green and Energy-efficient Photocatalytic Process for accelerated synthesis of Lactic Acid Esters using functionalized quantum dots. *Reaction Chemistry & Engineering*.
13. Verma, P., Wanchoo, R. K., & Pal Toor, A. (2021). Photo□chemical Synthesis of Lactic Acid Esters at Ambient Temperature Employing Sulphonically Fuctionalized N/W Doped Nano□semiconductor. *Photochemistry and Photobiology*.
14. Sharma, S., Setia, H., & Toor, A. P. (2021). Understanding the remedial strategy of Klebsiella pneumoniae WAH1 against emerging contaminant diclofenac sodium. *Environmental Technology & Innovation*, *21*, 101185.
15. Sharma, S., Setia, H., & Toor, A. P. (2021). Assessing the bioremediation potential of indigenously isolated Klebsiella sp. WAH1 for diclofenac sodium: optimization, toxicity and metabolic pathway studies. *World Journal of Microbiology and Biotechnology*, *37*(2), 1-12.
16. Sharma, S., Gupta, R., Bhatia, R., Toor, A. P., & Setia, H. (2021). Predicting microbial response to anthropogenic environmental disturbances using artificial neural network

and multiple linear regression. *International Journal of Cognitive Computing in Engineering*.
17. Verma, P., Wanchoo, R. K., & Toor, A. P. (2020). Synthesis of methyl acetate by nano-photocatalyst based on titania: Temperature dependence studies. *Materials Today: Proceedings*.
18. Sinhmar, A., Setia, H., Kumar, V., Sobti, A., & Toor, A. P. (2020). Enhanced photocatalytic activity of nickel and nitrogen codoped TiO2 under sunlight. *Environmental Technology & Innovation*, *18*, 100658.
19. Guliani, D., Sobti, A., & Toor, A. P. (2020). Comparative study on Graphene Oxide and MCM-48 based catalysts for esterification reaction. *Materials Today: Proceedings*.
20. Singh, N., Toor, A. P., & Verma, G. (2020). "Romanesco broccoli"-like palladium nano-fractals for superior methanol electro-oxidation. *Journal of Materials Science, 55*(1),1-15.
21. Sharma, N., Guliani, D., Kaur, K.,Verma, A., Sobti, A., & Toor, A. P. (2019). Enhanced catalytic activity of nano Fe_2O_3-MCM-48-SO_4 as a green catalyst for esterification of acetic acid with methanol.*Iranian Journal of Science and Technology, Transactions A: Science.*
22. Sharma, T., Kaur, M., Sobti, A., & Toor, A. P. (2019). Sequential microbial-photocatalytic degradation of imidacloprid. *Environmental Engineering Research*.
23. Kaur, A., Sobti, A., Toor, A. P., & Wanchoo, R. K. (2019). Motion of spheres and cylinders in viscoelastic fluids: Asymptotic behavior. *Powder technology*, *345*, 82-90.
24. Chawla, P., Sharma, S. K., & Toor, A. P. (2019). Optimization and modeling of UV-TiO_2 mediated photocatalytic degradation of golden yellow dye through response surface methodology. *Chemical Engineering Communications*, *206*(9), 1123-1138.
25. Sraw, A., Kaur, T., Pandey, Y., Sobti, A., Wanchoo, R. K., & Toor, A. P. (2018). Fixed bed recirculation type photocatalytic reactor with TiO_2 immobilized clay beads for the degradation of pesticide polluted water. *Journal of environmental chemical engineering*, *6*(6), 7035-7043.
26. Kaur, K., Sobti, A., Wanchoo, R. K., & Toor, A. P. (2018). Studies on glycerol conversion to tricaproin over sulfate promoted iron oxide as catalyst using response surface methodology. *Chemical Engineering Research and Design*, *132*, 276-284.
27. Kaur, J., Kaur, K., & Toor, A. P. (2018). Sulfated Iron Oxide Catalyzed Esterification of Acetic Acid with nButanol by Reactive Distillation. *Chemical Engineering & Technology*, *41*(11), 2196-2202.
28. Sobti, A., Toor, A. P., & Wanchoo, R. K. (2018). Oscillatory and steady shear rheological properties of aqueous polyacrylamide solutions. *Chemical Data Collections*, *17*, 356-369.
29. Chawla, P., Sharma, S. K., & Toor, A. P. (2018). Techno-economic evaluation of anatase and p25 TiO_2 for treatment basic yellow 28 dye solution through heterogeneous photocatalysis. *Environment, Development and Sustainability*, 1-19.
30. Guliani, D., Kaur, K., Singh, N., Sobti, A., & Toor, A. P. (2019). Catalytic performance of sulfate-grafted graphene oxide for esterification of acetic acid with methanol. *Chemical Engineering Communications*, *206*(5), 592-604.
31. Kaur, T., Sraw, A., Wanchoo, R. K., & Toor, A. P. (2018). Solar assisted degradation of carbendazim in water using clay beads immobilized with TiO_2& Fe doped TiO_2. *Solar Energy*, *162*, 45-56.

32. Bansal, P., Verma, A., Mehta, C., Singla, J., & Toor, A. P. (2018). Assessment of integrated binary process by coupling photocatalysis and photo-Fenton for the removal of cephalexin from aqueous solution. *Journal of materials science*, *53*(10), 7326-7343.
33. Verma, A., Prakash, N. T., Toor, A. P., Bansal, P., Sangal, V. K., & Kumar, A. (2018). Concentrating and Nonconcentrating Slurry and Fixed-Bed Solar Reactors for the Degradation of Herbicide Isoproturon. *Journal of Solar Energy Engineering*, *140*(2), 021006.
34. Singh, A., Verma, A., Bansal, P., Aggarwal, K., Kaur, T., Toor, A. P., &Sangal, V. K. (2018). Catalyst-coated cement beads for the degradation and mineralization of fungicide carbendazim using laboratory and pilot-scale reactor: catalyst stability analysis. *Environmental technology*, *39*(4), 424-432.
35. Kaur, K., Wanchoo, R. K., & Toor, A. P. (2017). Enhancement in Conversion and Selectivity of Trivalerin Using Reactive Distillation. *Industrial & Engineering Chemistry Research*, *56*(44), 12488-12494.
36. Verma, A., Toor, A. P., Prakash, N. T., Bansal, P., &Sangal, V. K. (2017). Stability and durability studies of TiO 2 coated immobilized system for the degradation of imidacloprid. *New Journal of Chemistry*, *41*(14), 6296-6304.
37. Verma, P., Kaur, K., Wanchoo, R. K., & Toor, A. P. (2017). Esterification of acetic acid to methyl acetate using activated TiO2 under UV light irradiation at ambient temperature. *Journal of Photochemistry and Photobiology A: Chemistry*, *336*, 170-175.
38. Singh, N., Joshi, A., Toor, A. P., & Verma, G. (2017). Drug delivery: advancements and challenges. In *Nanostructures for Drug Delivery* (pp. 865-886).
39. Kaur, K., Wanchoo, R. K., & Toor, A. P. (2017). Elementary transformation of glycerol to trivalerin: design of an experimental approach. *ACS Sustainable Chemistry & Engineering*, *5*(1), 802-808.
40. Kaur, T., Sraw, A., Wanchoo, R. K., & Toor, A. P. (2016). Visible–light induced photocatalytic degradation of fungicide with Fe and Si doped TiO_2 nanoparticles. *Materials Today: Proceedings*, *3*(2), 354-361.
41. Arora, R., Toor, A. P., &Wanchoo, R. K. (2015). Esterification of high free fatty acid rice bran oil: parametric and kinetic study. *Chemical and biochemical engineering quarterly*, *29*(4), 617-623.
42. Sharma, A., Joshi, A., Verma, G., & Toor, A. P. (2015, August). Surfactant assisted liquid phase exfoliation of graphene via probe tip sonication. In *AIP Conference Proceedings* (Vol. 1675, No. 1, p. 030047). AIP Publishing.
43. Rajput, H., Verma, A., Kaur, M., Kaur, T., & Toor, A. P. (2016). Heterogeneous solar photo-fenton degradation of reactive black 5 using foundry sand and fly ash: value addition to waste. *Journal of Environmental Engineering and Landscape Management*, *24*(2), 124-132.
44. Sraw, A., Toor, A. P., &Wanchoo, R. K. (2016). Adsorption kinetics and degradation mechanism study of water persistent insecticide quinalphos: for heterogeneous photocatalysis onto TiO_2. *Desalination and Water Treatment*, *57*(36), 16831-16842.
45. Sharma, M., Toor, A. P., &Wanchoo, R. K. (2016). Esterification of pentanoic acid with 1-propanol by sulfonated cation exchange resin: Experimental and kinetic studies. *Chemical Engineering Communications*, *203*(6), 801-808.
46. Kaur, T., Sraw, A., Toor, A. P., &Wanchoo, R. K. (2016). Utilization of solar energy for the degradation of carbendazim and propiconazole by Fe doped TiO_2. *Solar Energy*, *125*, 65-76.

47. Kaur, K., Jain, P., Sobti, A., & Toor, A. P. (2016). Sulfated metal oxides: eco-friendly green catalysts for esterification of nonanoic acid with methanol. *Green Processing and Synthesis*, *5*(1), 93-100.
48. Kaur, K., Wanchoo, R. K., & Toor, A. P. (2016). Facile synthesis of tributyrin catalyzed by versatile sulfated iron oxide: reaction pathway and kinetic evaluation. *Industrial & Engineering Chemistry Research*, *55*(9), 2534-2542.
49. Kaur, T., Toor, A. P., &Wanchoo, R. K. (2015). UV-assisted degradation of propiconazole in a TiO_2 aqueous suspension: identification of transformation products and the reaction pathway using GC/MS. *International Journal of Environmental Analytical Chemistry*, *95*(6), 494-507.
50. Kaur, K., Wanchoo, R. K., & Toor, A. P. (2015). Sulfated iron oxide: a proficient catalyst for esterification of butanoic acid with glycerol. *Industrial & Engineering Chemistry Research*, *54*(13), 3285-3292.
51. Sharma, T., Toor, A. P., &Rajor, A. (2015). Photocatalytic degradation of imidacloprid in soil: application of response surface methodology for the optimization of parameters. *RSC Advances*, *5*(32), 25059-25065.
52. Verma, A., Dixit, D., Toor, A., & Srivastava, J. (2015). Heterogeneous photocatalytic degradation of 2-chloro-4-nitrophenol using slurry and fixed bed reactor. *Environmental Progress & Sustainable Energy*, *34*(2), 380-386.
53. Sharma, T., Rajor, A., & Toor, A. P. (2015). Potential of Enterobacter sp. Strain ATA1 on imidacloprid degradation in soil microcosm: Effects of various parameters. *Environmental Progress & Sustainable Energy*, *34*(5), 1291-1297.
54. Sharma, T., Rajor, A., & Toor, A. P. (2014). Degradation of imidacloprid in liquid by Enterobacter sp. strain ATA1 using co-metabolism. *Bioremediation Journal*, *18*(3), 227-235.
55. Arora, R., Kapoor, V., & Toor, A. P. (2014, May*).* Esterification of free fatty acids in waste oil using a carbon-based solid acid catalyst.In *2nd International Conference on Emerging Trends in Engineering and Technology (ICETET'2014), London (UK).*

56. Verma, A., Prakash, N. T., & Toor, A. P. (2014). An efficient TiO_2 coated immobilized system for the degradation studies of herbicide isoproturon: Durability studies. *Chemosphere*, *109*, 7-13.
57. Sharma, M., Toor, A. P., &Wanchoo, R. K. (2014). Reaction kinetics of catalytic esterification of nonanoic acid with ethanol over Amberlyst 15. *International Journal of Chemical Reactor Engineering*, *12*(1), 451-463.
58. Kamalpreet Kaur, Amrit Pal Toor and R.K.Wanchoo, "Liquid phase esterification of butanoic acid with glycerol over zirconium supported heterogeneous catalysis" Proceedings of 1st National conference on Emerging trends in engineering and technology (NCETET 2014) held at Abu, Rajasthan. Published by Bonfring, ISBN 978-93-83459-34-6.
59. Sharma, M., Wanchoo, R. K., & Toor, A. P. (2014). Amberlyst 15 catalyzed esterification of nonanoic acid with 1-propanol: kinetics, modeling, and comparison of its reaction kinetics with lower alcohols. *Industrial & Engineering Chemistry Research*, *53*(6), 2167-2174.
60. Sharma, M., Toor, A. P., &Wanchoo, R. K. (2014). Kinetics of the esterification reaction between pentanoic acid and methanol catalyzed by noncorrosive cation exchange resin. *Chemical and biochemical engineering quarterly*, *28*(1), 79-85.

61. Kaur, T., Toor, A. P., &Wanchoo, R. K. (2015). Parametric study on degradation of fungicide carbendazim in dilute aqueous solutions using nano TiO_2. *Desalination and Water Treatment*, *54*(1), 122-131.
62. Sharma, A., Verma, G., & Toor, A. P.,2015 "Production of Surfactant Assisted Graphene by Liquid Phase Exfoliation via Probe Tip Sonication"Journal of Basic and Applied Engineering Research,2(4),266-269

63. Sraw, A., Wanchoo, R. K., & Toor, A. P. (2014). Optimization and kinetic studies for degradation of insecticide monocrotophos using LR grade and P25 TiO_2 under UV/sunlight conditions. *Environmental Progress & Sustainable Energy*, *33*(4), 1201-1208.
64. Verma, A., Prakash, N. T., & Toor, A. P. (2014). Photocatalytic degradation of herbicide isoproturon in TiO_2 aqueous suspensions: Study of reaction intermediates and degradation pathways. *Environmental Progress & Sustainable Energy*, *33*(2), 402-409.
65. Kamalpreet Kaur, Amrit Pal Toor and R.K. Wanchoo, "A method to clean industrial water via esterification: A review" Published online in International conference on advances in water resources development and management held at Panjab University, 23-25 October 2013.
66. Verma, A., Sheoran, M., & Toor, A. P. (2013). Titanium dioxide mediated photocatalytic degradation of malathion in aqueous phase.
67. Toor, A. P., Sharma, M., Thakur, S., &Wanchoo, R. K. (2011). Ion-exchange resin catalyzed esterification of lactic acid with isopropanol: a kinetic study. *Bulletin of Chemical Reaction Engineering & Catalysis*, *6*(1), 39-45.
68. Amrit Pal Toor, Teena Sharma and Anita Rajor, "The Bioremediation of pesticide contaminated sites" Proceedings of 2nd Conference on Advances in Chemical Engineering (AChemE 2011) held at Thapar University, Patiala from 27-28 Feb 2011, 259-265.
69. Toor, A., Sharma, M., Kumar, G., &Wanchoo, R. K. (2011). Kinetic study of esterification of acetic acid with n-butanol and isobutanol catalyzed by ion exchange resin. *Bulletin of Chemical Reaction Engineering & Catalysis*, *6*(1), 23-30.
70. Verma, A., Prakash, N. T., & Toor, A. P. (2014). Photocatalytic degradation of herbicide isoproturon in TiO_2 aqueous suspensions: Study of reaction intermediates and degradation pathways. *Environmental Progress & Sustainable Energy*, *33*(2), 402-409.
71. Sharma, M., Wanchoo, R. K., & Toor, A. P. (2012). Adsorption and kinetic parameters for synthesis of methyl nonanoate over heterogeneous catalysts. *Industrial & Engineering Chemistry Research*, *51*(44), 14367-14375.
72. Toor, A. P., Sharma, M., Thakur, S., &Wanchoo, R. K. (2011). Ion-exchange resin catalyzed esterification of lactic acid with isopropanol: a kinetic study. *Bulletin of Chemical Reaction Engineering & Catalysis*, *6*(1), 39-45.
73. Amrit Pal Toor, Anupama and S.K. Sharma, "An Empirical correlation for viscosity of refined Vegetable oils", Indian Journal of Chemical Technology, 14, 2007, 642-645.
74. Toor, A. P., Singh, V., Jotshi, C. K., Bajpai, P. K., & Verma, A. (2007). Treatment of bleaching effluent from the pulp and paper industry by photocatalytic oxidation. *Tappi Journal*, *6*(6), 9-13.

75. Toor, A. P., Verma, A., Jotshi, C. K., Bajpai, P. K., & Singh, V. (2006). Photocatalytic degradation of Direct Yellow 12 dye using UV/TiO2 in a shallow pond slurry reactor. *Dyes and pigments*, *68*(1), 53-60.
76. Amrit Pal Toor, "Photocatalytic Degradation of 4 Chlorocatechol Using TiO_2 in a Shallow Pond Slurry Reactor", Proceedings of 63rd Annual Conference of Indian Institute of Indian Institute of Chemical Engineers, CHEMCON-2010, 27-29 December 2010 at Department of Chemical Engineering, Annamalai University, Annamalai Nagar.
77. Amrit Pal Toor, Navneet Sharma and S K Sharma, "Remediation of pesticide contaminated soil using TiO_2 mediated by UV light/ solar light" Proceedings of 63rd Annual Conference of Indian Institute of Indian Institute of Chemical Engineers, CHEMCON-2010, 27-29 December 2010 at Department of Chemical Engineering, Annamalai University, Annamalai Nagar.
78. Rajiv Arora, Neel Kanth Grover, Rajeev Garg and Amrit Pal Toor, "Comparative Study of Cubic Equation of Stake For predicting Phase Behaviour of N- Heptane-Nitrogen Systems" Proceedings of 2nd International Conference and Exhibition on Waste to Wealth & 6th International Conference on Combustion, Incineration/Pyrolysis and Emission control, 26-29 July 2010 at Putra World Trade Centre, Kuala Lumpur, Malaysia
79. Ayyappan, K. R., Toor, A. P., Gupta, R., Bansal, A., &Wanchoo, R. K.(2009). Catalytic hydrolysis of ethyl acetate using cation exchange resin (Amberlyst-15): a kinetic study. *Bulletin of Chemical Reaction Engineering & Catalysis*, *4*(1), 16.
80. Anupama Gupta, S K Sharma and Amrit Pal Toor, "Production of biodiesel from waste soyabean oil", Journal of the Petrotech Society, 4, 2007, 40-45.
81. Toor, A. P., Verma, A., Jotshi, C. K., Bajpai, P. K., & Singh, V. (2006). Photocatalytic degradation of Direct Yellow 12 dye using UV/TiO_2 in a shallow pond slurry reactor. *Dyes and pigments*, *68*(1), 53-60.
82. Toor, A. P., Verma, A., Jotshi, C. K., Bajpai, P. K., & Singh, V. (2005). Photocatalytic degradation of 3, 4-dichlorophenol using TiO_2 in a shallow pond slurry reactor.
83. Banipal, T. S., Toor, A. P., & Rattan, V. K. (2000). Excess volumes, viscosities and compressibilities of binary mixtures consisting of alcohols with 1, 4-dioxane at different temperatures.

Book Chapters:

1. Rahul Singh, Vivek Kumar, Anoop Verma, Amit Sobti, Amrit Pal Toor; "Photocatalytic Activity of Bi-doped TiO_2 for Phenol Degradation Under UV and Sunlight Conditions" in Sustainable Engineering 201-212 (2019) Springer, Singapore.
2. Anoop Verma, Amrit Pal Toor, Palak Bansal, Vikas Sangal, Amit Sobti. "TiO_2-Assisted Photocatalytic Degradation of Herbicide 4-Chlorophenoxyacetic Acid: Slurry and Fixed-Bed Approach", in Sustainable Engineering133-143 (2019) Springer, Singapore.
3. Manpreet Kaur, Anoop Verma, Hema Setia and Amrit Pal Toor; "Comparative Study on the Photocatalytic Degradation of Paraquat Using Tungsten-Doped TiO_2 Under UV and Sunlight" in Sustainable Engineering 145-155(2019) Springer, Singapore.

4. TaranjeetKaur, Amrit Pal Toor, R.K.Wanchoo, “Degradation of the fungicide Carbendazim in dilute aqueous solutions using nano TiO_2 under UV”, Emerging Paradigms in Nanotechnology, Pearson publisher, 978-81-317-8991-9, 2013, 307-313.
5. Pankaj Chawla, S.K.Sharma, Amrit Pal Toor, “Modified Titanium dioxide nanomaterials for theenhancement of heterogeneous photocatalysis”, Emerging Paradigms in Nanotechnology, Pearson publisher, 978-81-317-8991-9, 2013, 338-346.
6. Amrit Pal Toor, Neha Yadav, R.K. Wanchoo, “Enhancement in photocatalytic activity of nano-TiO_2 photocatalyst by carbon doping” Materials science forum vol 757 (2013) pp 271-284. Engineering applications of Nanoscience and nanomaterials. Trans tech publications, Switzerland.
7. Abhishek Sraw, Amrit Pal Toor, R.K.Wanchoo, “Photocatalytic degradation of Quinalphos in aqueous solution using visible light active tungsten doped TiO_2” Nanotechnology: Novel Perspectives and Prospects, McGraw Hill Publisher.978-93-392-2109-6, 2015, 503-507.
8. Kamalpreet Kaur, Amrit Pal Toor, R.K.Wanchoo,“Sulphated Zirconia: A proficient low cost nano-catalyst for synthesis of valuable esters.” Nanotechnology: Novel Perspectives and Prospects, McGraw Hill Publisher.978-93-392-2109-6, 2015, 165-171.
9. Taranjeet Kaur, Amrit Pal Toor, R.K.Wanchoo,”Photocatalytic degradation of propiconazole by using nitrogen source as a dopant” Nanotechnology: Novel Perspectives and Prospects, McGraw Hill Publisher.978-93-392-2109-6, 2015, 622-626.
10. Pankaj Chawla, SK Sharma, Amrit Pal Toor, “Influence of Chemical Structure of Dyes on Nano-Titanium Dioxide-Mediated Heterogeneous Photocatalysis” Nanotechnology: Novel Perspectives and Prospects, McGraw Hill Publisher. 978-93-392-2109-6, 2015, 237-242.
11. Rajiv Arora, Amrit Pal Toor, R.K.Wanchoo, “Parametric Study of Esterification of High Free Fatty Acid Rice Bran Oil Using Heterogeneous Nano-Catalyst” Nanotechnology: Novel Perspectives and Prospects, McGraw Hill Publisher. 978-93-392-2109-6, 2015, 587-592.