

Curriculum Vitae

1. **Name and full correspondence address** : Richa Tomer
2. **Email(s) and contact number(s)** : richa2.tomer@gmail.com
+91-7389512186
3. **Designation** : Assistant Professor
Department of Leather Technology, School of Chemical Technology, HBTU Kanpur, U.P.
4. **Gender (M/F/T)** : Female
5. **Whether differently-abled (Yes/No)** : No
6. **Covid-19 vaccination** : Fully vaccinated

7. Academic Qualification

Degree	Year	Subject	University/Institution	Marks
Ph.D.	Thesis submitted	Chemical Engineering	IIT Roorkee, India	Pursuing
M.Tech.	2015	Chemical Engineering	MANIT Bhopal, India	9.04/10 (CGPA)
B.Tech.	2012	Chemical Technology-Leather Technology	HBTU, Kanpur, India	72.4%

8. Ph.D. Details

- Ph.D. thesis title** : Catalytic conversion of glucose to value-added products
- Guide's Name** : Prof. Prakash Biswas
- Institute/University** : Department of Chemical Engineering, Indian Institute of Technology Roorkee, Uttarakhand, India
- Year of Award** : Pursuing (expected 2022)

9. Fellowship/Awards

- A. GATE in Chemical Engineering Qualified [2013]
- B. MHRD scholarship during M.Tech [2013-2015]

10. Experience

Served as Assistant Professor (contractual) from July 2015 to June 2016 at Department of Chemical Engineering, MANIT BHOPAL, M.P.

11. Publications, and Conferences

- A. International (SCI Impact-factor) Journals : 04
- B. International Conference : 04

A. SCI Journal Paper List

Authors	Title of Paper	Journal	Rank	IF
Richa Tomer and Prakash Biswas *	Dehydration of glucose/fructose to 5-hydroxymethylfurfural (5-HMF) over an easily recyclable sulfated titania (SO ₄ ²⁻ /TiO ₂) catalyst	<i>New journal of chemistry, RSC</i>	Q2	3.591
Richa Tomer, Prakash Biswas*	Dehydration of glucose over sulfate impregnated ZnO (hexagonal-monoclinic) catalyst in dimethylsulfoxide (DMSO) medium: production, separation, and purification of 5-hydroxymethylfurfural (5-HMF) with high purity	<i>Catalysis Today</i>	Q1	6.766
Richa Tomer, Prakash Biswas*	Optimization of reaction parameters by using response surface methodology (RSM) for the selective dehydration of glucose to 5-hydroxymethylfurfural (5-HMF) a valuable	<i>Catalysis Today</i>	Q1	6.766

	platform chemical over a mesoporous TiO ₂ catalyst in dimethylsulfoxide (DMSO) medium			
Richa Tomer, Prakash Biswas*	Insights into a detailed kinetics and thermokinetics of glucose dehydration in the presence of mesoporous TiO ₂ catalyst in the DMSO medium.	<i>Journal of the Taiwan Institute of Chemical Engineers</i>	<i>Q1</i>	5.876
B. International Conferences				
Somsubhru Maity, Richa Tomer, Prakash Biswas	Conversion of Glycose/Fructose to value-added chemicals	ACS on Campus	IIT Roorkee, Uttarakhand, India	February 07, 2018
Richa Tomer, Somsubhru Maity, Prakash Biswas	Chemical reaction and reaction engineering (CRRE): Conversion of glucose to 5-hydroxymethylfurfural (5-HMF) over sulfated zinc oxide catalyst (Paper ID: AdChE2020/CRRE-PAPER/0908)	AdChE 2020	Department of Chemical Engineering, UPES, Dehradun, India	February 5-7, 2020
Richa Tomer, Prakash Biswas	Catalytic conversion of glucose to building block chemicals: 5-Hydroxymethylfurfural, Formic acid, and Levulinic acid	2021 AIChE Annual Meeting	In-Person Boston and Virtual Meeting	November 7-19, 2021
Richa Tomer, Prakash Biswas	One-pot dehydration of glucose to various value-added products in the DMSO medium	26 th ISCRE & 9 th APCRE Symposium,	IIT Delhi, New Delhi, India	December 5-8, 2021

12. Workshop/Training program/Expert lecture/ Certificates

S. No.	Title	Sponsor	Organizer	Dated
1.	Future of Chemical Engineering	TEQIP-III and IICChE	IIT (ISM) Dhanbad	March 19-21, 2021
2.	Valorization of Lignocellulosic Biomass towards Sustainable Fuels, Chemicals, and Materials	TEQIP-III	NIT Jalandhar	September 18-22, 2020
3.	The people and the principles behind nature-the what, the why, and the how	Springer Nature	Virtual Event	June 18, 2020
4.	Processing and Characterization of Smart Material		MANIT Bhopal	May 2015
5.	Intensification and Upscaling of Continuous Process		CSIR Pune	December 2013

13. Skills

Instrumentation	:	XRD, TGA, N ₂ -Physisorption, FTIR, Py-FTIR, FE-SEM, HR-TEM, NH ₃ -TPD, and XPS, hydrogen chemisorption, Micromeritics Pulse Chemisorb 2705 instrument, and high-performance liquid chromatography (HPLC), High pressure autoclave reactor, Microwave reactor
Software	:	X'pert Highscore Plus, Origin 9, Polymath 5.1, Excel solver, Design expert 11, ChemDraw Ultra 8.0
Languages	:	English and Hindi (mother tongue)