

CURRICULUM VITAE

Full Name: Dr. Priyanshu Verma

Experience: Assistant Professor (Aug 2019 to May 2020),
Department of Biotechnology
Bansal Institute of Engineering and Technology -
[BIET], Lucknow, U.P., India.



Qualification:

Ph.D., Indian Institute of Technology Patna (IIT Patna)
(Awarded on 06 August 2019);
M.Tech., NIT Jalandhar;
B.Tech., AKTU (UPTU), Lucknow.

Research Interest: Advanced Oxidation Processes;
Wastewater Treatment and Management;
Homogeneous and Heterogeneous Photocatalysis.

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priyanshu.pcb14@iitp.ac.in

ACADEMIC RECORD

Degree	Name of the University/School	Duration	Division/ Percentage	Relevant Subjects
Ph.D. (Chemical and Biochemical Engineering)	Indian Institute of Technology Patna (IIT Patna)	2014 - 2019	1 st Div. CGPA- 8.25 or 82.5%	Advanced Oxidation Processes, Wastewater Treatment, and Nanotechnology
M.Tech. (Chemical Engineering)	Dr. B. R. Ambedkar National Institute of Technology, Jalandhar (NIT Jalandhar)	2012 - 2014	1 st Div. 81.98% (CGPA- 8.63)	Chemical Reaction Engineering, and Process Control
B.Tech. (Biotechnology)	Dr. A.P.J. Abdul Kalam Technical University Uttar Pradesh, Lucknow (Formerly G.B.T.U. or U.P.T.U.)	2008 - 2012	1 st Div. 78.56%	Fluid flow and Solid Handling, and Bioprocess Engineering
Senior Secondary (10+2)	Rani Laxmi Bai Memorial Senior Secondary School, Lucknow (CBSE Board)	2007	1 st Div. 73.00%	Math's and Biology
Secondary (10)	Rani Laxmi Bai Memorial Senior Secondary School, Lucknow (CBSE Board)	2005	1 st Div. 78.20%	Math's and Science

ACADEMIC PROJECTS

Ph.D.: 2014 – 2019

Title: Potential of Advanced Oxidation Processes for Degradation of Organic Pollutants Present in Various Aqueous Matrices.

Supervisor: Dr. Sujoy Kumar Samanta, Assistant Professor (IIT Patna)

M.Tech.: 2012 – 2014

Title: Photocatalytic Degradation of Meropenem Antibiotic in Aqueous Solution and Urine Sample Using UV/TiO₂ and UV/TiO₂/H₂O₂ Processes.

Supervisor: Dr. Jatinder Kumar Ratan, Associate Professor (NIT Jalandhar)

B.Tech.: 2008 – 2012

Title: Study of Antibiotics Potency Loss with Time and Its Effect on Resistivity.

Supervisor: Dr. Vinod Bihari, Ex-Scientist G (CDRI, Lucknow) & Ex-Director (SITM Lucknow)

JOURNAL PUBLICATIONS

- ❖ **Verma, P.**; Samanta, S.K.; Mishra, S. “Photon-independent NaOH/H₂O₂-based degradation of rhodamine-B dye in aqueous medium: Kinetics, and impacts of various inorganic salts, antioxidants, and urea” *Journal of Environmental Chemical Engineering*, 8; 103851, **2020**. DOI:10.1016/j.jece.2020.103851 (Elsevier; **I.F. = 4.3**)
- ❖ **Verma, P.**; Samanta, S.K. “UV-C/NaOH based degradation of ciprofloxacin antibiotic in aqueous medium: A negative emission water treatment technology” *Journal of the Indian Chemical Society*, 97; 389-395, **2020**. (Elsevier; **I.F. = 0.233**)
- ❖ Ranjan, S.; Dasgupta, N.; **Verma, P.**; Ramalingama, C. “Acute and sub-chronic toxicity of titanium dioxide nanoparticles synthesized by microwave-irradiation-assisted hybrid chemical approach” *Journal of the Indian Chemical Society*, 97; 483-491, **2020**. (Elsevier, **I.F. = 0.233**)
- ❖ Mishra, S.; Sahu, T.M.; **Verma, P.**; Kumar, P.; Samanta, S.K. “Microwave-Assisted Catalytic Degradation of Brilliant Green by Spinel Zinc Ferrite Sheets”. *ACS Omega*, 4; 10411-10418, **2019**. DOI: 10.1021/acsomega.9b00914(American Chemical Society, **I.F. = 2.87**)
- ❖ Ranjan, P.; **Verma, P.**; Agrawal, S.; Rajagopala Rao, T.; Samanta, S.K.; Thakur, A.D. “Inducing Dye-Selectivity in Graphene Oxide for Cationic Dye Separation Applications”. *Materials Chemistry and Physics*, 226; 350-355, **2019**. DOI:10.1016/j.matchemphys.2019.01.047 (Elsevier, **I.F. = 3.408**)
- ❖ **Verma, P.**; Samanta, S.K. “A direct method to determine the adsorbed dyes on adsorbent via processing of diffuse reflectance spectroscopy data”, *Materials Research Express*, 6(1); 015505, **2019**. DOI:10.1088/2053-1591/aae3f2 (IOP Publishing, **I.F. = 1.929**)
- ❖ Ratan, J.K.; Saini, A.; **Verma, P.** “Microsized-titanium dioxide based self-cleaning cement: Incorporation of calcined dolomite for enhancement of photocatalytic activity”, *Materials Research Express*, 5(11); 115509, **2018**. DOI:10.1088/2053-1591/aadd87 (IOP Publishing, **I.F. = 1.929**)

- ❖ **Verma, P.**; Samanta, S.K. “Continuous ultrasonic stimulation based direct green synthesis of pure anatase-TiO₂ nanoparticles with better separability and reusability for photocatalytic water decontamination”, *Materials Research Express*, 5(6); 065049, **2018**. DOI:10.1088/2053-1591/aacc88 (IOP Publishing, **I.F.** = **1.929**)
 - ❖ **Verma, P.**; Samanta, S.K. “Microwave-enhanced advanced oxidation processes for the degradation of dyes in water”, *Environmental Chemistry Letters*, 16; 969–1007, **2018**. DOI:10.1007/s10311-018-0739-2 (Springer Nature, **I.F.** = **5.922**)
 - ❖ **Verma, P.**; Samanta, S.K. “Facile synthesis of TiO₂-PC composites for enhanced photocatalytic abatement of multiple pollutant dye mixtures: A comprehensive study on the kinetics, mechanism and effects of environmental factors”, *Research on Chemical Intermediates*, 44; 1963–1988, **2018**. DOI:10.1007/s11164-017-3209-8 (Springer Nature, **I.F.** = **2.262**)
 - ❖ **Verma, P.**; Samanta, S.K. “Degradation kinetics of pollutants present in a simulated wastewater matrix using UV/TiO₂ photocatalysis and its microbiological toxicity assessment”, *Research on Chemical Intermediates*, 43; 6317–6341, **2017**. DOI:10.1007/s11164-017-2992-6 (Springer Nature, **I.F.** = **2.262**)
 - ❖ **Verma, P.**; Samanta, S.K. “Comparative assessment of antibiotic potency loss with time and its impact on antibiotic resistance”, *Comparative Clinical Pathology*, 25(6); 1163–1169, **2016**. DOI:10.1007/s00580-016-2321-2 (Springer Nature)
 - ❖ Samanta, S.K.; **Verma, P.** “Advanced Hydrogen Production through Methane Cracking: A Review”, *Science & Technology*, 1(3); 109–123, **2015**.
 - ❖ Mittal, N.; **Verma, P.**; Kumar, J. “Synthesis, Characterization and Photocatalytic Activity of Bismuth Doped Titanium Dioxide under Different Light Sources”, *Journal of NanoScience, NanoEngineering & Applications*, 4(3); 23–31, **2014**.
 - ❖ **Verma, P.**; Kumar, J. “Degradation and Microbiological Validation of Meropenem Antibiotic in Aqueous Solution Using UV, UV/H₂O₂, UV/TiO₂ and UV/TiO₂/H₂O₂ Processes”, *International Journal of Engineering Research and Applications*, 4(7); 58–65, **2014**.
 - ❖ **Verma, P.**; Srivastava, A.; Mittal, N.; Kumar, J. “Photocatalytic Disinfection using Titanium Dioxide; Use of CFL as Environmental Disinfectant”, *Nano Trends*, 16(2); 39–42, **2014**.
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BOOK CHAPTERS

- ❖ **Verma, P.**; Samanta, S.K. “Overview of Biogas Reforming Technologies for Hydrogen Production: Advantages and Challenges” (Chapter 17), *Proceedings of the First International Conference on Recent Advances in Bioenergy Research*, Springer Proceedings in Energy: Springer India, **2016**, pp 227–243. DOI:10.1007/978-81-322-2773-1_17 (Springer)
- ❖ **Verma, P.**; Ratan, J.K. “Assessment of the Negative Effects of Various Inorganic Water Pollutants on the Biosphere – An Overview” Chapter – 5, *Inorganic Water*

Pollutants, Elsevier (2020) – ISBN: 9780128189658. (<https://doi.org/10.1016/B978-0-12-818965-8.00005-6>)

- ❖ **Verma, P.**; Ratan, J.K. “Environmental and Toxicological Implications of Nanopharmaceuticals – An Overview”, *Nanopharmaceuticals: Principles and Applications Vol. 2. Environmental Chemistry for a Sustainable World, Vol. 47.* (Springer Nature Book Series), 2021. DOI:10.1007/978-3-030-44921-6_1
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CASE STUDY

- ❖ **Verma, P.**; Samanta, S.K. “A potential solution to reduce the pharmaceutical contamination of surface water with the ultimate objective of GHGs emission reduction”, *WaCCliM*, 2018.
(http://climatesmartwater.org/library_page/#pid=1422)
-

PREPRINTS

- ❖ **Verma, P.**; Samanta, S.K. “A novel UV-C/XOH(X=Na or K) based highly alkaline advanced oxidation process (HA-AOP) for degradation of emerging micropollutants.”, *ChemRxiv* 2018 (DOI:10.26434/chemrxiv.5777379.v1).
 - ❖ Datta, D.; **Verma, P.**; Banerjee, A.; Kar, S.; Sengupta, T.; Sengupta, N.; Samanta, S.K.; Khan, E.M. “Lysine as a potential low molecular weight angiogen: its clinical, experimental and in-silico validation- A brief study”, *bioRxiv* 2016 (DOI:10.1101/080176).
 - ❖ **Verma, P.**; Bir, A.; Banerjee, A.; Basu, J.; Kar, S.; Samanta, S.K.; Datta, D. “In-silico studies of facilitated VEGF(s)–VEGFR(s) bindings for assessment of Lysine as an indirect Low-Mol-Wt angiogen: Experimental validation of a potential synthetic Low-Mol-Wt angiogen”, *bioRxiv* 2016 (DOI:10.1101/077677).
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CONFERENCES

- ❖ **Verma, P.**; Samanta, S. K. “Comparative Study on Different UV-based Homogeneous Advanced Oxidation Processes for Wastewater Treatment”, in *Industrial Water 2018, DECHEMA-Haus, Frankfurt am Main, Germany*, 27th – 29th November 2018 (Poster Presentation).
- ❖ **Verma, P.**; Samanta, S.K. “Insights on the Limitations of Heterogeneous Photocatalysis and Possible Solutions”, in the Waste Water Treatment, Reuse & Recycle session, *CHEMCON-2017 (Indian Chemical Engineering Congress)*, Haldia Regional Center, IICChE, 27th – 30th December 2017 (Oral Presentation)
- ❖ **Verma, P.**; Samanta, S.K. “Photocatalytic Degradation Studies of Simulated Wastewater Containing Industrial Dye Mixture and Antibiotic”, in the Environmental session, *APCAT-7 (7th Asia-Pacific Congress on Catalysis)*, ICT Mumbai, 17th – 21st January 2017 (Oral Presentation).
- ❖ **Verma, P.**; Samanta, S.K. “Kinetic Study of Photocatalytic Degradation of Synthetic Dye Mixture Using AC-TiO₂ Nanocomposite”, in *ACSSI-2K16 (15th Asian Conference on Solid State Ionics)*, IIT Patna, 27th – 30th November 2016 (Oral Presentation).

- ❖ Samanta, S.K.; **Verma, P.**; Bhaduri, S.; Mandal, S.K. “Advanced Hydrogen Production and Use of Solar Energy for Its Production Through Methane Cracking: A Review”, in International Conference on Electrical, Electronics, Engineering Trends, Communication, Optimization and Sciences (**E³COS**), Vijayawada–2014.
 - ❖ **Verma, P.**; Kumar, J. “Photocatalytic Degradation of beta-Lactam Antibiotics”, in International Conference on Emerging Trends in Traditional & Technical Textiles (**ICETT**), NIT Jalandhar, 11th – 12th April 2014 (Poster Presentation).
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JOURNALS REVIEWED

- ❖ Chemical Engineering Journal (Elsevier) – **23**.
 - ❖ Materials Science and Engineering: B (Elsevier) - **1**.
 - ❖ Materials Research Express (IOP Publishing) - **12**.
 - ❖ Modelling and Simulation in Engineering (Hindawi) - **1**.
 - ❖ Journal of Materials Science and Research (Gavin Publishers) - **2**.
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AWARDS, HONORS, AND OTHER ACHIEVEMENTS

- ❖ Served as Guest Editor of CHEMBIOEN-2020 Special Issue published in **Journal of Indian Chemical Society**, an SCI Journal with I.F. = 0.233.
- ❖ Recipient of **Ambuja’s Young Researcher’s Award – 2014 (IICChE)**.
- ❖ **Executive Member** of **Indian Chemical Society North Branch**, Jalandhar.
- ❖ Member of an expert review group of **Water and Wastewater Companies for Climate Mitigation (WaCCliM)** project on “Low Carbon, Low Energy Solutions for Climate Smart Water”, which is a joint initiative between the **Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ)** and the **International Water Association (IWA)**.
- ❖ Received an honorarium of **2000 Euros** for the contribution to the **WaCCliM Knowledge Platform**.
- ❖ **Adviser** (Honorary) in 'Panel of Advisers' of **RAIAN LIMITED, Dhaka, Bangladesh** (<http://www.raianbd.com/about-us/panel-of-advisers/>). (Since 7th Jan 2019)
- ❖ Honorary Member, **Quarterly Franklin Membership (Membership ID#KI84630)**, London Journals Press, UK.
- ❖ Become **Judge** of **Venture Cup 2019, Denmark** (National Startup Competition).
- ❖ **Chaired a Technical Session** at CHEMBIOEN-2020 International Conference.
- ❖ Become **Publication and Review Committee Member** of the International Conference **ChemBioEn-2020** to be held in **NIT Jalandhar**.
- ❖ Successfully completed the **Web of Science Advanced Series Certification Course with 100% Score**.

- ❖ **Life Associate Member of Indian Institute of Chemical Engineers (LAM-55188).**
- ❖ **Member of International Water Association (IWA), Membership ID: 1611229.**
- ❖ **Member of Asia-Pacific Chemical, Biological & Environmental Engineering Society (APCBEEES), Member No.: 202000.**
- ❖ **Member of International Association of Engineers (IAENG), Membership No.: 172030.**
- ❖ Became **Regular Member of International Chemical Biology Society.**
- ❖ **Member of Water Supply and Sanitation Collaborative Council (WSSCC).**
- ❖ Became Member of the **International Scientific Committee of ESEPM 2017 Conference, China.**
- ❖ Become Member of the **Technology Program Committee of ESEPM 2019 Conference, China.**
- ❖ Selected & Participated in the **IC-IMPACTS 2017 Summer Institute on Sustainable Communities in Low Resource Settings**, held at the **University of British Columbia, Vancouver** and in the **First Nation community of ?aq'am**, located near Cranbrook in the southeastern region of **British Columbia, Canada** from 3rd June to 8th June, 2017 followed by the **IC-IMPACTS 2017 Research Conference and Graduate Student Seminar.**
- ❖ Selected & Participated in the **IC-IMPACTS 2016 Summer Institute on Nanotechnologies for Safe & Sustainable Infrastructure, Integrated Water Management and Public Health**, hosted at the **University of Alberta, Edmonton, Alberta, Canada** from 29th May to 3rd June, 2016.
- ❖ A project on '**Economical and ecofriendly regeneration of spent activated carbon filters used in water purifiers**' had been shortlisted for pre-final round in top 90s out of more than a thousand entries under the **Gandhian Young Technological Innovation (GYTI) Awards-2018.**
- ❖ Won **2nd Prize** in a Paper Presentation Event jointly organized by **PCRA** (Petroleum Conservation Research Association) and **BPCL** (Bharat Petroleum Corporation Limited) at IIT Patna on 5th Feb 2015.
- ❖ **Institute Research Fellowship** (For Pursuing PhD): IIT Patna, 2014-2019, sponsored by **MHRD, India.**
- ❖ **Postgraduate Fellowship Through GATE-2012** (For Pursuing M.Tech.): NIT Jalandhar, 2012-2014, sponsored by **MHRD, India.**
- ❖ **THREE** times **GATE** qualified (2012, 2013 & 2014) with good percentile/rank.
- ❖ Got 3rd Prize in "**SRIJAN-2k12 Working Model Competition**" during B.Tech.

- ❖ Received **Academic Honor Certificate** for **100% attendance** in Class-X.
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GIAN COURSES

- ❖ **“Heterogeneous Catalysis and Applications”** from 1st – 5th August 2016 by **Prof. Alex Ibhaddon, The University of Hull, UK** at Panjab University, Chandigarh.
 - ❖ **“Modeling Approaches of Nanoscale Filtration Processes of Solutions and Suspensions”** from 13th – 20th July 2016 by **Prof. Anatoly N. Filippov, Gubkin Russian State University of Oil & Gas, Russia** at IIT Patna, Bihta, Patna.
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TRAININGS, WORKSHOPS, AND OTHER EXPERIENCES

- One month summer project at **Biotech Park, Lucknow (UP)** on **“In-silico Drug Discovery”** (July 2010).
- One month industrial training at **Mohan Gold Water Breweries, Lucknow (UP)** on **“Process and Quality control of Beer Production”** (May 2011).
- One month industrial training in **GMH Organic, Baddi (HP)** based on **“Production and Quality Control of Injectable Cephalosporin”** from 20th June to 20th July, 2011.
- One month industrial training at **Parag, Lucknow (UP)** based on **“Production and Quality Control of Dairy Products”** (August 2011).
- Undergone for one day Industrial visit of **Indo-Gulf Fertilizers Ltd., Jagdishpur (UP)**.
- Undergone for a single day visit of **Sewage Treatment Plant, Jalandhar (PB)**.
- Attended a Workshop based on **“Basics & Applications of Aspen Plus (BAAAP-2013)”** organized by **Thapar University, Patiala (PB)** from 13th – 14th September 2013 (sponsored by **TEQIP**).
- Have done a Short term course on **“Energy & Environment Management”** organized by **NIT Jalandhar (PB)** from 19th – 23rd October 2013 (sponsored by **TEQIP**).
- Attended a National Seminar on **“Management of Technical Institutions”** under **TEQIP-II**, organized by the **ISTE NIT Jalandhar Chapter** from 30th – 31st October 2013.
- Attended a Short term training program on **“Recent Advances in Energy Technology”** organized by **NIT Jalandhar (PB)** from 2nd – 6th June 2014 (sponsored by **TEQIP-II**).
- Participated in a Workshop based on **“Issues in Solid Waste Management”** organized by **IIT Patna (Bihar)** on 11th October 2014.
- Participated in the **INUP Familiarization Workshop (Step 1)** on **“Nanofabrication Technologies”** organized by **CeNSE at IIT Patna** during 8th and 9th Oct 2015.
- Also participated in a **National Workshop** on **“Small molecule analysis by API Mass Spectrometry & NMR Spectroscopy”** organized by **SAIF CSIR-CDRI, Lucknow** during 2nd and 3rd Nov 2015.

- Attended a QIP Short term course on “**Fundamentals and Application of Biomaterials Science and Bio-Engineering**” organized by **IIT Kanpur** during 7th – 11th Dec 2015.
 - Attended **FICCI India Innovation Growth Programme** at The Hotel Patliputra Ashok, Patna on 25th Jan. 2016.
 - Selected & Participated in the **INUP Hands-on Training (Step-2)** on “**Photovoltaics and Micro and Nano Characterization Techniques**” in **IISc Bangalore** organized by **CeNSE** during 4th – 12th Feb 2016.
 - Participated in a **Workshop** on “**Fluid Mechanics: Modeling, Analysis and Computation**” organized by **IIT Patna** during 14th – 17th July 2016.
 - Participated in the **National Workshop** on “**Protein Structure Prediction and Drug Design**” organized by the **Central University of South Bihar** during 18th – 19th Nov 2016.
 - Participated in the **Research Training Workshop** on “**Concepts & Practice of Materials Characterization**” organized by **IIT Patna** during 24th – 26th Nov 2016.
 - Undergone for a comprehensive **LC-MS/MS** familiarization workshop cum training at **Agilent Technologies India Pvt Ltd**, IMT Manesar during 20th – 22nd September 2017.
 - Participated in the **Cross-cutting-issue Workshop of the EU projects WaterWatt and INSPIREWATER** (Increasing water and energy efficiency in process industry – tools, technologies and concepts) on 30th Nov 2018 at **DECHEMA e. V., Frankfurt, Germany**.
 - Participated in **National Workshop on Building National STI Policy System and Governance for Effective R&D Ecosystem** organized by **DST-Center for Policy Research, BBAU, Lucknow** on 5th March 2019.
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LEADERSHIP AND MANAGEMENT STINTS

- Have been actively involved in the development of Chemical and Biochemical Engineering Department of IIT Patna as First Student of the Department (Under direct supervision of Dr. S. K. Samanta).
 - Assisted in the establishment of 2 Labs: (1) Biochemical Research Lab; (2) Unit Operation UG Lab, in Chemical and Biochemical Engineering Department of IIT Patna (Under direct supervision of Dr. S. K. Samanta).
 - Volunteered several organizing departments of Conferences, Seminars, Workshops and Short Term Courses during my Master's and PhD.
 - Led the Accommodation Team as a part of the Organizing Committee, effectively and was highly lauded for effective management and Leadership qualities, in **CHEMCON- 2012, NIT Jalandhar** (Dec 26th – Dec 31st, 2012).
 - Also organizes and manages Fresher and Farewell parties during my Bachelor's.
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COMPUTER SKILLS

Platform: Windows 98/XP/7/8/10.

Application: MS Office, OriginLab, Mendeley, CorelDraw, Android, etc.

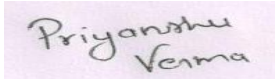
FOREIGN UNIVERSITIES VISITED

- **Canada** (2): University of British Columbia, Vancouver (in 2017);
University of Alberta, Edmonton (in 2016).
 - **Germany** (1): DECHEMA Society for Chemical Engineering and
Biotechnology e.V., Frankfurt (in 2018).
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PERSONAL DETAILS

Father's Name	Mr. Umesh Kumar Verma
Mother's Name	Mrs. Manju Verma
Date of Birth	2 nd November 1991
Sex	Male
Nationality	Indian
Passport Number	N2323491
Permanent Address	Dr. PRIYANSHU VERMA 178, SADARPUR KARORA, GOSAINGANJ, LUCKNOW, U.P. – 226501 (INDIA)
Hobbies	Net surfing, Pharmaceuticals.
Languages Known	English & Hindi
Marital Status	Single

I hereby declare that the particulars mentioned above are true to the best of my knowledge and belief.


(PRIYANSHU VERMA)



ORCID ID: <https://orcid.org/0000-0003-3699-1582>

Google Scholar Profile: <https://scholar.google.co.in/citations?user=J4NxN1oAAAAJ&hl=en>

Researcher ID: <http://www.researcherid.com/rid/E-5071-2019>

Scopus ID: <https://www.scopus.com/authid/detail.uri?authorId=57113052900>

ResearchGate Profile: https://www.researchgate.net/profile/Priyanshu_Verma

LinkedIn Profile: <https://www.linkedin.com/in/priyanshu-verma-97510b17b>

REFERENCES

1. Dr. Sujoy Kumar Samanta (Relation: Ph.D. Supervisor)

Assistant Professor, Department of Chemical and Biochemical Engineering,
Indian Institute of Technology Patna, Bihta, Patna- 801106 (Bihar) India.
Email ID: sksamanta@iitp.ac.in Phone: +91 6123028173

2. Dr. Jatinder Kumar Ratan (Relation: M.Tech. Supervisor)

Associate Professor, Department of Chemical Engineering,
Dr. B R Ambedkar National Institute of Technology, Jalandhar- 144011 (Punjab) India.
Email ID: kumarj@nitj.ac.in Mobile: +91 9876850908

3. Dr. Subrata Hait (Relation: Doctoral Committee Member)

Associate Professor, Department of Civil and Environmental Engineering,
Indian Institute of Technology Patna, Bihta, Patna- 801106 (Bihar) India.
Email ID: shait@iitp.ac.in Phone: +91 6123028195

4. Dr. Debatosh Datta (Relation: Research Collaborator)

Visiting Professor, Centre for Healthcare Science and Technology, IEST, Shibpur.
Consultant, Apollo-Gleneagles Hospital, Kolkata, India.
Email ID: debatoshdtt@gmail.com; debatoshd@yahoo.com Mobile: +91 9674047734

Additional Information

Familiar Experimental, Analytical and Characterization Techniques:

- SEM, TEM, SAED, EDX, XRD, TGA/DTG, CHNS, PL, FT-IR, DLS, UV-Vis Spectro., DRS, Multipoint BET/N₂ Adsorption-Desorption Isotherm, Photoelectrochemical Analysis, HPLC, LC-MS/MS, GC-MS, TOC/TIC, etc.;
 - Photocatalysis, Photolysis, and other Advanced Oxidation Processes (AOPs);
 - Antimicrobial Activity Tests;
 - Study of Antibiotics' Potency Loss with Time and Its Effect on Resistivity;
 - In-silico Drug Designing or Discovery;
 - Molecular Docking: Mainly Protein – Protein Interaction Study;
 - Adsorption Isotherms;
 - Batch and Continuous mode Photocatalytic Activity Tests;
 - Hands-on Experience on Various AOPs and their Cost Analysis;
 - Familiar with Various Industrial Scale Water Treatment Plants' Working and Management Processes.
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Manuscript(s) Under Communication:

- **Priyanshu Verma**, Sujoy Kumar Samanta. "Effect of human urine constituents on the pollutant degradation efficiency of UV-C/TiO₂ process".
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Research Citations Details: Google Scholar

Citations = 137

h-index = 8

i10-index = 4
