

S.No.	Year/Month of Publication	Title	Authors	Journal	Publisher	Vol./PageNo.
1.	May 2025	<i>Electrochemical sensing of 3,3'-Dichlorobiphenyl using green-synthesized gold nanoparticles and Polyvinylpyrrolidone composite</i>	Nahid Rehman, Shraddha Shukla, Ashutosh Pandey, Anjana Pandey	Results in chemistry IF 2.5	Elsevier	16/1-10
2.	April 2025	Thermal reduction synthesis approach of reduced graphene oxide for the preparation of a label-free and prompt immuno sensing of <i>Salmonella enterica</i> via electrochemical techniques	Nahid Rehman, Ashutosh Pandey, Anjana Pandey	Sensing and bio-sensing research IF 5.4	Elsevier	48/ 1-10
3.	April 2025	Silicon dioxide nanoparticles as a protective agent against As(III) toxicity in <i>Vigna mungo</i> L. Hepper	Vandita Anand, Anjana Pandey	Environmental Science and Pollution Research IF:5.88	Springer	32/10960-10983
4.	January 2025	Insight of intestinal fatty acid binding protein as a potential biomarker in the biology of epithelial damage of gastrointestinal membrane	Nahid Rehman, Anjana Pandey	Current protein & peptide science IF 1.8	Bentham Science	26(5)/ 321-333

5.	September 2024	Unprecedented one-pot synthesis of 3,4-dihydropyrimidine-2-(1H)-ones catalyzed by hydrazine sulfate through Biginelli reaction, ADMET property, molecular docking studies and their antibacterial activity on <i>Bacillus brevis</i> and <i>E. coli</i>	Brijesh, Divya Singh, Anjana Pandey, Ashutosh Pandey	Synthetic communication IF 2.1	Taylor & Francis	54(20)/ 771–1784
6.	August 2024	Synthesis and characterization of a composite featuring metal-organic frameworks, titania nanoparticles, and graphene oxide: A dual evaluation as a photocatalyst and electrochemical sensing platform	Varun Bhatnagar, Deepak Kumar, Anjana Pandey, Ashutosh Pandey	Journal of Chemical Science IF 1.7	Springer	
7.	July 2024	Synthesis and characterization of a composite incorporating metal organic frameworks, copper oxide nanoparticles, and graphene oxide and evaluating its multifaceted potential in photocatalysis and electrochemical sensing	Varun Bhatnagar, Deepak Kumar, Anjana Pandey, Ashutosh Pandey	Journal of Materials Science: Materials in Electronics IF: 2.8	Springer	35(1374)
8	May 2024	Unlocking the potential of SiO_2 and CeO_2 nanoparticles for arsenic mitigation in <i>Vigna mungo</i> L. Hepper (Blackgram)	Vandita Anand, Anjana Pandey	Environmental Science and Pollution Research IF:5.88	Springer	31(23):34473–34491
9.	September 2023	Synthesis and characterization of	Vandita Anand, Anjana Pandey	Environmental Science and	Springer	30(45):100 814-

		CeO ₂ and SiO ₂ nanoparticles and their effect on growth parameters and the antioxidant defense system in <i>Vigna mungo</i> L. Hepper		Pollution Research IF:5.88			100827
10.	June 2023	Design of a Multi-epitope Vaccine against Covid-19: An in-silico approach	Kaushal Mishra, Kishore Asheesh Kumar Mishra, Vandita Anand, Anjana Pandey, Savita Budhwar, Deepak Chand Sharma	Current Biotechnology	Bentham Science		
11.	May 2023	Computational studies to explore plant-based inhibitors for renoyl-(acyl carrier protein)- reductase (InhA) of <i>Mycobacterium tuberculosis</i>	Divya Singh, Anjana Pandey	Letters in Drug Design & Discovery IF:1.09	Bentham Science		
12.	January 2023	Nanotechnology: The Alternative and Efficient Solution to Biofouling in the Aquaculture	Divya Singh, Nahid Rehman, Anjana Pandey	Applied Biochemistry and Biotechnology IF: 3.094	Springer Nature	195(7)	

		Industry				
13.	September 2022	In-silico Screening of Plant-Derived Natural Compounds for their Anti-covid-19 Potential	Vandita Anand, Saumya Srivastava, Anjana Pandey	Journal of Chilean Chemical Society IF: 1.034	Sociedad Chilena de Química	67(3):5656-5661
14.	July 2022	Exploring the potential of <i>Bacillus licheniformis</i> AP1 for fermentative biohydrogen production using starch substrate: BBD based process parameter optimization	Neha Singh, Priya Rai, Ashutosh Pandey, Anjana Pandey	Fuel IF: 8.035	Elsevier	319(117):1 23668
15.	April 2022	In-silico Studies of Phytochemicals of Ashwagandha, Harsingar, Meethi neem and Tulsi Against Covid-19	Vandita Anand, Saumya Srivastava, Anjana Pandey	Journal of Mexican Chemical Society IF: 0.869	Sociedad Química de México	66(2):206-222
16.	March 2022	Molecular mechanisms of action of epigallocatechin gallate in cancer: Recent trends and advancement	Vaishali Aggarwal, Hardeep Singh Tuli, Mousumi Tania, Saumya Srivastava, Erin E. Ritzer, Anjana Pandey, Diwakar Aggarwal, Tushar Singh Barwal, Aklank Jain, Ginpreet Kaur, Katrin Sak, Mehmet Varol, Anupam Bishayee	Seminars in Cancer Biology IF: 17.012	Elsevier	80:256-275
17.	February 2022	Evaluation of low cost immobilized support matrices in	Priya Rai, Ashutosh Pandey, Anjana	Fuel IF: 8.035	Elsevier	310: 122275

		augmentation of biohydrogen potential in dark fermentation process using <i>B. licheniformis</i> AP1	Pandey			
18.	December 2021	An overview of Covid-19 and its vaccines	Nahid Rehman and Anjana Pandey	Biology Bulletin Review IF: 0.39	Pleiades	11: 47-64
19.	April 2021	Cytotoxicity evaluation of Titania and Silver doped Titania on Human colorectal cells	Himanshu Kachroo, Anjana Pandey, Saumya Srivastava, Thomas Yeager	Sensor Letters IF: 2.36	American Scientific Publishers	18: 542-549
20.	February 2021	Hydrogen production by sequential dark and photo fermentation using wet biomass hydrolysate of <i>Spirulina platensis</i> : Response surface methodological approach	Anjana Pandey, Pallavi Sinha, Ashutosh Pandey	International Journal of Hydrogen Energy IF: 7.139	Elsevier	8;46(10):7137-46
21.	August 2020	Computational screening of anticancer drugs targeting miRNA155 synthesis in breast cancer	Saumya Srivastava, Anjana Pandey	Indian Journal of Biochemistry & Biophysics IF: 1.476	NATL INST SCIENCE COMMUNICATION-NISCAIR	57: 389-394
22.	August 2020	Enhanced lipid production in <i>Tetraselmis</i> sp. by two stage process	Prajukta Swain, Archana Tiwari, Anjana Pandey	Biomass and Bioenergy IF: 5.774	Elsevier	139/105643

		optimization using simulated dairy wastewater as feedstock				
23.	April 2020	<i>Syngonium podophyllum</i> leaf extract mediated synthesis and characterization of gold nanoparticles for biosensing potential: A sustainable approach	Saumya Srivastava, Anjana Pandey	Current Nanoscience IF: 1.513	Bentham Science	I7(1):81-89
24.	March 2020	Molecular mechanisms of action of Hesperidin in cancer: recent trends and advancements	Vaishali Aggarwal, Hardeep Singh Tuli, Falak Thakral, Paavan Singhal, Diwakar Aggarwal, Saumya Srivastava, Anjana Pandey, Katrin Sak, Mehmet Varol, Md. Asaduzzaman Khan, Gautam Sethi,	Experimental Biology and Medicine IF: 4.088	SAGE Publisher	245(5):486-97.
25.	February 2020	Colorimetric Sensing of Methyl Parathion Using Nanozymatic Activity of Gold Nanoparticles	Anjana Pandey, Saumya Srivastava, Gayatri, Priya Rai, Ashutosh Pandey	Advanced Science, Engineering and Medicine	American Scientific Publishers	12 (2)
26.	October 2019	Optimization of sugar release from banana peel powder waste (BPPW) using box-behnken design (BBD):	Priya Rai, Ashutosh Pandey, Anjana Pandey	International Journal of Hydrogen Energy IF: 7.139	Elsevier	44(47): 25505-25513

		BPPW to biohydrogen conversion				
27.	July 2019	In- silico mining of small sequence repeats in hydrogenase maturation subunits of <i>E. coli</i> , <i>Clostridium</i> , and <i>Rhodobacter</i>	Priya Rai, Ashutosh Pandey, Anjana Pandey	International Journal of Hydrogen Energy IF: 7.139	Elsevier	44(33):178 13-17822
28.	June 2019	Standardised nanostructured Ta/N-TiO ₂ for environmental contaminants: an efficient visible light induced photochemical quencher for dyes	Kamini Gupta, Jatineder kumar, R. P. Singh, Anjana Pandey, Priya Rai, Ashutosh Pandey	Materials Technology IF: 3.846	Taylor & Francis	1-11.
29.	June 2019	Cheese whey to biohydrogen and useful organic acids: A non-pathogenic microbial treatment by <i>L. acidophilus</i>	Anjana Pandey, Saumya Srivastava, Priya Rai, Mikel Duke	Scientific Reports IF: 4.996	Nature publishing	9(1):8320
30.	February 2019	Natural product-based nanoformulations for cancer therapy: Opportunities and challenges	Dharambir Kashyap, Hardeep Singh Tuli, Mukerrem Betul Yerer, Ajay Sharma, Katrin Sak, Saumya Srivastava, Anjana Pandey,	Seminars in Cancer Biology IF: 17.012	Elsevier	69:5-23

			Vivek Kumar Garg, Gautam Sethi, Anupam Bishayee			
31.	January 2018	Simultaneous selection model based evaluation of arsenic tolerance in black gram (<i>Vigna mungo</i> L.) using morphological parameters	M.Z. Shamim, Anjana Pandey	Legume Research IF: 0.669	Agricultural Research Communication Centre	42-314-319
32.	January 2018	Phytic acid and inorganic phosphate in black gram (<i>Vigna mungo</i>) species and their effect on human body	Neha Yadav, Anjana Pandey	Indian Journal of applied research IF: 2.165	Sara publishing academy	8 (11)
33.	November 2017	Divergence analysis of black gram (<i>Vigna mungo</i> L.) for grain yield and yield components	M.Z. Shamim, Anjana Pandey	Legume Research IF: 0.669	Agricultural Research Communication Centre	42(5):646-53
34.	August 2017	Intensification of hydrogen production by <i>B. licheniformis</i> using kitchen waste as substrate	Saumya Srivastava, Ashish Kumar, Ashutosh Pandey, Anjana Pandey	International Journal of Hydrogen Energy IF: 7.139	Elsevier	42(July 2017):2165 9-21666
35.	August 2017	Need for development of heavy metal tolerance in crops: Achievements and challenges	M.Z. Shamim, Anjana Pandey	Cutting Edge Spinco Biotech	National	August 2017

36.	July 2017	Lung Cancer: Analysis of biomarker and methods and its prognostic value	Saumya Yadav, Shreya Agarwal, SS Diya Rawali and Anjana Pandey	Cellular and Molecular Biology IF: 1.77	Omics International	63, 88-92, May 2017
37.	July 2017	Effects of arsenic toxicity on morphological characters in blackgram (<i>Vigna mungo</i> L.) during early growth stage	M.Z. Shamim and Anjana Pandey	Cellular and Molecular Biology IF: 1.77	Omics	63, 38-43, 2017
38.	July 2017	Effect of pH on optimization of photofermentative hydrogen production by co- culture of <i>Rhodobacter sphaeroides</i> NMBL- 02 and <i>Bacillus firmus</i> NMBL-03	Anjana Pandey, Suman Dolly, Deepa Semwal and Ashutosh Pandey	Cellular and Molecular Biology IF: 1.77	Omics	63, 68-72, 2017
39.	July 2017	Exploitation of dark fermented effluent of cheese whey byco- culture of <i>Rhodobacter sphaeroides</i> and <i>Bacillus firmus</i> for photo- hydrogen production	Anjana Pandey and Ashutosh Pandey	Cellular and Molecular Biology IF: 1.77	Omics	63, 93-99 2017
40.	March 2017	Microalgae Biomass Production for CO ₂ Mitigation and	Anjana Pandey	Journal of Microbiology and Experimentation	Medcrave	4 (4,), March 2017,

		Biodiesel Production		IF: 5.897		00117
41.	October 2016	Electricity generation in membrane-less single chambered microbial fuel cell	Shweta Singh, Chandrakant Dwivedi and Anjana Pandey	2016 International Conference on Control, Computing, Communication and Materials (ICCCCM)	IEEE	978-1-4673-9084-2/16/\$31.00 ©2016 IEEE
42.	August 2016	Whole cell SELEX technology and its applications	Neha Singh and Anjana Pandey	Aptamers and Synthetic Antibodies	Franklin and Smith	2(1), 18-28
43.	May 2016	Current trends used in diagnosis of food borne pathogens	Pranjali Yadav and Anjana Pandey	World Journal of Pharmaceutical Research IF: 8.084		5(6), 401-417
44.	May 2016	Bioelectricity Production from Various Feedstocks Using Pure Strain of <i>Bacillus firmus</i> NMBL-03	Shweta Singh, Anjana Pandey and C.K. Dwivedi	Int Journal of Renewable Energy Development IF: 1.67	Center of Biomass and Renewable Energy (CBIORE), Diponegoro University	5(2), 119-127
45.	October 2015	Process parameter optimization and enhancement of photo-biohydrogen production by mixed culture of <i>Rhodobacter sphaeroides</i> NMBL-	Suman Dolly, Anjana Pandey, Bishnu Kumar Pandey, Ram Gopal	Int Journal of Hydrogen Energy IF: 7.139	Elsevier	40,16010-16020

		02 and <i>Escherichia coli</i> NMBL-04 using Fe-nanoparticle				
46.	June 5, 2015	Isolation and characterization of faecal coliforms in different water samples: A case study	P. Yadav and A. Pandey	World Journal of Pharmaceutical Research IF: 8.084	World Journal of Pharmaceutical research	4(7), 2116-2121
47.	January 2015	Effect of nanosized TiO_2 on photofermentation by <i>Rhodobacter sphaeroides</i> NMBL-02	Anjana Pandey, Kiran Gupta, Ashutosh Pandey	Biomass and Bioenergy IF: 5.061	Elsevier	72, 273-279
48.	August 2014	In <i>Silico</i> mining of simple sequence repeats in whole genome of <i>Xanthomonas</i> sp.	M. Jaiswal and A. Pandey	Journal of Computer Science & Systems Biology IF: 4.50	Omics International	7, 203-208
49.	June 2014	Translational research for biosensing of pancreatic cancer: concept and advancements	A. Pandey and K. R. Bharadwaj	World Journal of Pharmaceutical Research IF: 8.084	World Journal of Pharmaceutical research	4, 1292-1300
50.	May 2014	Biohydrogen production from various feedstocks by <i>Bacillus firmus</i> NMBL-03	Pallavi Sinha, Anjana Pandey	Int Journal of Hydrogen Energy IF: 7.139	Elsevier	39, 7518-7525
51.	April 2014	Toxic Cyanobacterial blooms and molecular detection of hepatotoxin-	Archana Tiwari and Anjana Pandey	Journal of Algal Biomass Utilization	Phycospect rum	5(2), 33-42

		microcystin				
52.	November-January 2014	Identification of yellow mosaic virus (YMV) resistant black gram (<i>Vigna mungo</i> L.) genotypes for cultivation in northern India	M.Z. Shamim and A. Pandey	Journal of Agroecology and Natural Resource Management IF: 3.628	Krishi Sanskriti, India	1(2), 48-50
53.	June 2013	Photocatalytic antibacterial performance of TiO ₂ and Ag-doped TiO ₂ against <i>S. aureus</i> , <i>P. aeruginosa</i> and <i>E. coli</i>	Kiran gupta, Anjana pandey, Ashutosh pandey	Beilstein journal of nanotechnology IF:3.65	Not known	11/547-549
54.	June 2013	Genetic study of <i>Fagopyrum tataricum</i> from Western Himalaya using ISSR markers	Garima Kishore, Anjana Pandey, Rajendra Dobhal, Sanjay Gupta	Biochemical Genetics IF: 2.22	Springer	51, 750-765
55.	June 2013	Evaluation of Mixed Heterotrophic Microbial Consortium Obtained from Indian Cow Dung for Biological Hydrogen Production	Suman Dolly, Anjana Pandey	Journal of Alternate Energy Sources & Technologies IF: 4.395	STM journals	4, 1-6
56.	June 2013	Photocatalytic antibacterial performance of TiO ₂ and Ag-doped TiO ₂ against <i>S. aureus</i> , <i>P.</i>	Kiran Gupta, R. P. Singh, Ashutosh Pandey, Anjana Pandey	Beilstein Journal of Nanotechnology IF: 3.65	Beilstein Institute, Germany	4, 345-351

		<i>aeruginosa</i> and <i>E. coli</i>				
57.	February 2013	Identification of the RAPD marker linked to powdery mildew resistance gene(s) in black gram by using bulk segregant analysis	Priya Sinha, Anjana Pandey and Major Singh	Research Journal of Biotechnology		8(2), 9-15
58.	September 2012	Role of antioxidative enzymes in toxic bloom forming Cyanobacteria	Archana Tiwari and Anjana Pandey	Journal of Applied and Natural Science	Applied and Natural Science Foundation	4(2), 228-233
59.	August 2012	Assessment of Population Genetic Diversity of <i>Fagopyrum tataricum</i> using SSR Molecular Marker	Garima Kishore, Sanjay Gupta & Anjana Pandey	Biochemical Systematics and Ecology IF: 1.381	Elsevier	43(February 2012), 32-41
60.	March 2012	Synthesis and characterization of Eu ⁺⁺⁺ doped Y ₂ O ₃ (red phosphor) and Tb ⁺⁺⁺ doped Y ₂ O ₃ (green phosphor) by hydrothermal processes.	Ravindra P. Singh, Kiran Gupta, Ashutosh Pandey and Anjana Pandey	World Journal of Nano Science and Engineering IF: 2.39	Scientific Research: An Academic Publisher	2, 13-18
61.	February 2012	Optimization of hydrogen production by <i>Rhodobacter sphaeroides</i> NMBL-01	Anjana Pandey, Neha Srivastava & Pallavi Sinha	Biomass and Bioenergy IF: 5.061	Elsevier	37, 251-256

62.	January 2012	Cyanobacterial hydrogen production-A step towards clean environment.	Archana Pandey & Anjana Pandey	Int Journal of Hydrogen Energy IF: 5.816	Elsevier	37, 139-150
63.	2011	Standardization of Callus Induction and Plant Regeneration from Leaf Explants of Black Gram (<i>Vigna mungo</i> var. <i>silvestris</i>).	Priya Srivastava and Anjana Pandey	Int Journal of Innovations in Biological and Chemical Sciences IF: 3.2	White Science Journals	1, 1-6
64.	September 2011	Effect of Nickel (Ni) on chlorophyll, lipid peroxidation and antioxidant enzymes activities in black gram (<i>Vigna mungo</i>) leaves.	Deepmala Dubey and Anjana Pandey	Int Journal of Science and Nature IF: 0.545	Society for Science and Nature	2, 395-401
65.	September 2011	Synthesis, Characterization and Antibacterial Activity of Biologically Important Vanillin Related Hydrazone Derivatives. International	T. Govindasami, Anjana Pandey, N. Palanivelu & Ashutosh Pandey	Int Journal of Organic Chemistry IF: 4.354	Scientific Research An Academic Publisher	1, 71-77
66.	July 2011	An evaluative report and challenges for fermentative biohydrogen production	Pallavi Sinha and Anjana Pandey	Int Journal of Hydrogen Energy IF: 5.816	Elsevier	36(April 2011), 7460-7478
67.	March	Genetic Diversity Analysis in	Priya Srivastava, D.P. Sinha and Anjana	Journal of Plant Breeding and	Academic	3, 53-59

	2011	Different Varieties of Black gram Using RAPD Markers.	Pandey	Crop Sciences	Journals	
68.	January 2011	<i>Acidithiobacillus ferrooxidans</i> : A bioleaching bacteria for better iron(II) oxidation ability.	Anjana Pandey, Anand Srivastava and Ashutosh Pandey	Int Journal of Innovations in Biological and Chemical Sciences IF: 2.170	White Science Journals	1, 32-37
69.	November 2010	Effect of Iron on growth, pigmentation and antioxidative activity of bloom forming cyanobacteria.	Archana Pandey & Anjana Pandey	Journal of Environmental Science and Engineering IF: 3.083	National Environmental Engineering Research Institute	4, 55-64
70.	October 2010	Influence of altitudinal variation on the antioxidant potential of <i>Fagopyrum tataricum</i> of Western Himalayas.	Garima Kishore, Shashi Ranjan, Anjana Pandey & Sanjay Gupta	Food Science and Biotechnology IF: 2.44	Springer	19(October 2010), 1355-1363
71.	February 2010	Synthesis and structural characterization of hexanuclear Ti^{IV} compound $Ti_6(\mu_2-O)_2(\mu_3-O)_2(\mu_2-OC_4H_9)_2(OC_4H_9)_6(OOCCHCl_2)_8$.	Ashutosh Pandey, Anjana Pandey, S. Singh, P. Mayer & W.J. Parak	Z. Naturforsch. Verlag der Zeitschrift für Naturforschung IF: 1.047	Walter de Gruyter	65b, 1-5
72.	January 2010	Synthesis of γ - Fe_2O_3 nanoparticles with crystallographic and magnetic	Samar Layek, Anjana Pandey, Ashutosh Pandey & H.C. Verma	Int Journal of Engineering, Science and Technology	Engg Journals Publication s	2, 33-39

		texture.				
73.	January 2010	In-vitro seed germination of <i>Fagopyrum tataricum</i> of different land collections in the Western Himalayans.	Garima Kishore, Shashi Ranjan, Anjana Pandey & Sanjay Gupta	Seed Technology IF: 0.508	Society of Commercial Seed Technologists, USA	19, 63-68
74.	September 2009	Isolation and characterization of a high H ₂ -producing lab isolate from cow dung.	Anjana Pandey, Pallavi Sinha, S.M. Kotay and D. Das	Journal of Hydrogen Energy IF: 5.816	Elsevier	34, 7483-7488
75.	April 2009	Synthesis and structural characterization of a hexanuclear Gd(III) as a potential precursor for Gd ₂ O ₃ nanomaterials.	Ashutosh Pandey, Anjana Pandey, Peter Mayer, Wolfgang J. Parak and Arun B. Samaddar	Z. Naturforsch. Verlag der Zeitschrift für Naturforschung IF: 1.047	Walter de Gruyter	64b, 263-268
76.	March 2009	Chloroform and water soluble sol-gel derived Eu ⁺⁺⁺ /Y ₂ O ₃ (red) and Tb ⁺⁺⁺ /Y ₂ O ₃ (green) nanophosphors: Synthesis, characterization and surface modification. (IEEE)	Ashutosh Pandey, M.K. Roy, Anjana Pandey, M. Zanella, R. A. Sperling, W.J. Parak, A.B. Samaddar & H.C. Verma	IEEE Transactions on Nanobiosciences IF: 2.935	Scholar One Manuscripts IEEE	8, 43-50
77.	January 2008	Reverse micelles as suitable microreactor for increased biohydrogen	Pandey, Anjana and Pandey, Ashutosh.	Int Journal of Hydrogen Energy IF: 5.816	Elsevier	33, 273-278.

		production.				
78.	February 2007	Using reverse micelles as microreactor for hydrogen production by coupled systems of <i>Nostoc/R. palustris</i> and <i>Anabaena/R. palustris</i> .	Pandey, Ashutosh; Pandey, Archana; Srivastava, Priya and Pandey Anjana.	World J Microbiol Biotechnol IF: 3.312	Springer	23, 269-274.
79.	November 2006	Synthesis and characterization of zirconium isopropoxide chloroacetate, a novel precursor for zirconia.	Pandey, Ashutosh; Pandey, Anjana, Meyer, Peter and Parak, Wolfgang.	Inorganica Chimica Acta IF: 2.545	Elsevier	359, 4511-4518
80.	April 2006	Sol-gel synthesis and characterization of Eu ⁺⁺⁺ /Y ₂ O ₃ nanophosphors by an alkoxide precursor.	Pandey Ashutosh; Pandey Anjana; Mukesh and Verma H.C.	Materials Chemistry and Physics IF: 4.094	Elsevier	96, 466-470.
81.	April 2005	Improved hydrogen production efficiencies by coupled system of <i>Halobacterium halobium</i> and chloroplast and <i>Rhodopseudomonas sphaeroides</i> within reverse micelles.	Pandey Anjana; Pandey Ashutosh	Int J. of Hydrogen Energy IF: 5.816	Elsevier	HE1971
82.	March-April, 2004	Polymerase Chain Reaction (PCR): Its comparison with	Kesarwani, R.C.; Pandey, Anjana; Pandey, Ashutosh;	Indian J. of Surgery IF: 0.656	Springer	66(2), 84-89.

		conventional techniques for diagnosis of extra pulmonary tubercular disease.	Singh, Anupam Kumar.,			
83.	2003	Body temperature of homeothermic animals - why 36° C?;	Srivastava R.C.; Singh A.; Misra H.O.	J. Indian Chem. Soc IF: 0.243	Indian Chemical Society	80, 449-450.
84.	April 2002	Colony morphology mutants of chemolithotrophic <i>Acidithiobacillus ferrooxidans</i> are associated with altered genomic distribution of family 1 repetitive DNA sequence;	Chakraborty, R.; Singh, Anjana; Lahiri, C.; Deb, C.; Roy, P.	Current Science IF: 1.102	Current Science Association in collaboration with the Indian Academy of Sciences (India)	82(8), 1009-1014
85.	February 2000	Reverse micelles as water property control system to investigate the hydration, superactivity and kinetics of enzyme invertase;	Singh, Anjana; Dubey, R.S.	Indian Journal of Biochemistry and Biophysics IF: 1.476	NISCAIR	37, 171-177.
86.	August 1999	Synergistic effects in enzymic reactions:	Singh, Anjana; Dubey, R.S.	Indian Journal of Biochemistry and Biophysics IF: 1.476	NISCAIR	36, 227-232.
87.	August	Enhanced hydrogen	Singh, Anjana; Pandey, K.D.;	Int Journal of	Elsevier	24(8),

	1999	production by coupled system of <i>Halobacterium halobium</i> and chloroplast after entrapment within reverse micelles:	Dubey, R.S.	Hydrogen Energy IF: 7.139		693-698.
88.	April 1999	Reverse micellar entrapment of <i>Rhodopseudomonas sphaeroides</i> for enhanced hydrogen production.	Singh, Anjana; Pandey, K.D.; Dubey, R.S.	World Journal of Microbiology and Biotechnology IF: 4.253	Springer	15(2), 277-282
89.	May 1997	Enzymatic activity of the whole cells entrapped into reversed micelles - studies on alpha amylase and invertase in the entrapped yeast cells:	Gajjar, L.; Singh, Anjana; Dubey, R.S.; Srivastava, R.C.	Applied Biochemistry and Biotechnology IF: 3.094	Springer	66, 159-172.

Books:

S. No.	Year/Month of Publication	Authors	Title of Book/ chapter	Publisher	ISBN	Book
1.	July 2025	Anjana Pandey, Ashutosh Pandey, Rakesh Kumar,	Technology, Innovations, and Sustainability: A Blueprint for Tomorrow	Cambridge Scholars Publishing	ISBN: 978-1-0364-4839-4	Book
2.	March 2025	Anjana Pandey, Rakesh Kumar, Ashutosh Pandey	Technologies and Innovations for Sustainable Development	CRC Press Taylor & Francis group	ISBN: 978-1-032-78258-4	Book
3.	December 2022	Nahid Rehman and Anjana Pandey	Engineered Nanoparticles as Drug Delivery Systems	Taylor n Francis	ISBN 978-100-3-25212-2	Book

4.	January 2022	Saumya Srivastava and Anjana Pandey	Recent Advances in Cancer Diagnostics and Therapy A Nano-Based Approach	CRC Press	ISBN 978-103-2- 06217-4	Book
----	-----------------	---	--	-----------	----------------------------	------

5.	February 2018	Anjana Pandey, Suman Dolly and Ashutosh Pandey	Concepts and different strategies of fermentative hydrogen production	Lambert Publishing	ISBN 978-613-7-33447-8	Book
6.	November 2014	Priya Srivastava and Anjana Pandey	Molecular Studies in Legume Crops	LAP Lambert Academic Publishing (20 November 2014)	ISBN-10: 3659641324 ISBN-13: 978-3659641329	Book
7.	May 2014	Anjana Pandey & Archana Tiwari	Toxicogenomics of microcystins	Lambert Publishing (Germany)	ISBN/ACCN No.978-3-639-71364-0	Book
8.	November 2013	Anjana Pandey (Associate Editor)	International Conference on Environment, Health and Industrial Biotechnology	McGraw Hill Education (India) Pvt. Ltd.	978-93-83083-41-1	Book
9.	February 2013	Anjana Pandey and Pallavi Sinha	Hydrogen production by <i>Citrobacter</i> CDN-1 isolated from cow dung	Lambert Publishing (Germany)	ISBN 978-3-659-34479-4	Book
10.	March 2012	Garima Kishore, Anjana Pandey and Sanjay Gupta	Genetic Diversity Analysis in <i>Fagopyrum Tataricum</i> by Molecular Markers	LAP Lambert Academic Publishing	ISBN10 3848434687 ISBN13 9783848434688	Book

Book chapters:

S. No.	Year/Month of Publication	Authors	Title of Book/ chapter	Publisher	ISBN	Chapter
1.	March 2025	Anjana Pandey, Saumya Srivastava, Nahid Rehman, Ashutosh Pandey	Technologies and Innovations for Sustainable Development Chapter Simultaneous Electrochemical Sensing of Organic dyes from wastewater Effluent: A Sustainable Approach	CRC Press Taylor & Francis	ISBN: 978-1-032-78258-4	Chapter
2.	March 2025	Anjana Pandey and Divya Singh	Technologies and Innovations for Sustainable Development Revolutionizing Drug Discovery and Development: The impact of In silico and Bioinformatics Approaches	CRC Press Taylor & Francis	ISBN: 978-1-032-78258-4	Chapter
3.	March 2025	Anjana Pandey, Suman Dolly, Ashutosh Pandey	Technologies and Innovations for Sustainable Development Unlocking the potential of <i>Bacillus firmus</i> NMBL-03 Enhanced	CRC Press Taylor & Francis	ISBN: 978-1-032-78258-4	Chapter

			Hydrogen Production Using Response Surface Methodology			
4.	March 2025	Vishal Sonkar, Shraddha Shukla & Anjana Pandey	Technologies and Innovations for Sustainable Development Production optimization of EPS and Photosynthetic Pigment (Chlorophyll -a, Chlorophyll-b, carotenoids) production from <i>Chlorella</i> using BBD Matrix for RSM	CRC Press Taylor & Francis	ISBN: 978-1-032-78258-4	Chapter
5.	January 2024	Priya Rai and Anjana Pandey	Algal Farming Systems Chapter 06: Exploring algal varieties to value-added products for commercialization	Apple Academic Press	978-1-032-70035-9	Chapter

6.	January 2024	Priya Rai and Anjana Pandey	Microalgal Biomass for Bioenergy Applications Chapter 07: Chemical, biochemical, and thermochemical conversion of microalgal biomass into biofuel generation	Elsevier	978-0-443-13928-4	Chapter
7.	August 2023	Vandita Anand and Anjana Pandey	Arsenic Toxicity Remediation: Biotechnological Approaches Chapter 11: Arsenic Uptake and Bioaccumulation in Plants: A Review	Springer	978-3-031-37560-6	Chapter

8.	July 2023	Saumya Srivastava and Anjana Pandey	Oncology: Genomics, Precision medicine and Therapeutic targets Chapter 1: Oncology: Way forward from clinical and molecular diagnosis to treatment	Springer	978-981-99-1528-6	Chapter
9.	January 2023	Nahid Rehman and Anjana Pandey	Application of Biofilms in Applied Microbiology Chapter 7: <i>Pseudomonas putida</i> biofilms	Elsevier	978-0-323-90513-8	Chapter
10.	December 2022	Nahid Rehman and Anjana Pandey	Green Nanoarchitectonics	Jenny Standford	978-981-14-9685-08	Chapter

			Chapter 12: Green Nanomaterials Revolution in Cosmetic Products and Skin Treatment			
11.	October 2022	Nahid Rehman and Anjana Pandey	Nanotherapeutics in Cancer Chapter : Introduction to Nanotherapeutics: A synthetic preview	Jenny Standford	978-100-33-3453-8	Chapter
12.	May 2022	Priya Rai and Anjana Pandey	Innovations in Environmental Biotechnology Chapter 8: Role of Emerging Green Technology in Remediation of Toxic Pollutants	Springer	978-981-16-4445-0	Chapter
13.	February 2022	Vandita Anand and Anjana Pandey	Microbial Degradation of Xenobiotics through Bacterial and Fungal Approach Chapter 10: Role of Microbes in Biodegradation of Cyanide and Its Metal Complexes	Elsevier	978-0-32-385839-7	Chapter
14.	October 2021	Vandita Anand and Anjana Pandey	Removal of Refractory Pollutants from Wastewater Treatment Plants	CRC press	978-0-36-775812-7	Chapter

			Chapter 11: Bioremediation of Cr (VI) contaminated soil using Bacteria.			
15.	May 2021	Vandita Anand and Anjana Pandey	Wastewater Treatment Reactors Chapter 22: Molecular biological techniques used in environmental engineering: current prospects and challenges	Elsevier	978-0-12- 823991-9	Chapter
16.	October 2020	Vaishali Aggarwal, Katrín Sak, Mehak Arora, Ashif Iqubal, Ajay Kumar, Saumya Srivastava, Anjana Pandey, Satwinderjeet Kaur, Hardeep Singh Tuli	History of Oncotherapies in Cancer Biology	Springer	978-981-15- 7586-0	Chapter

17.	September 2019	Anjana Pandey, Saumya Srivastava	Recent Trends in Catalyst Based Water Splitting Technology: Research and Applications	Nova	978-1-53616-044-4	Chapter
18.	May 2019	Saumya Srivastava and Anjana Pandey	Role of Nanotechnology in Flavonoid-Mediated Anticancer Therapy	Springer Nature	978-981-13-5873-9	Chapter
19.	April 2019	Archana Tiwari, Thomas Kiran and Anjana Pandey	Second and third generation of feedstocks: The evolution of biofuels Chapter 14: Algal cultivation for biofuel production	Elsevier	978-0-12-815162-4	Chapter
20.	November 29, 2018	Gaurav Pal, Priya Rai and Anjana Pandey	Green Synthesis, Characterization and Applications of Nanoparticles Chapter 1: Green synthesis of nanoparticles: A greener approach for a cleaner future Page 1-26	Elsevier	9780081025796	Chapter
21.	May 25, 2018	Saumya Srivastava and Anjana Pandey	Anticancer Plants: Natural Products and Biotechnological Implements Chapter 6: <u>Applications of</u>	Springer Nature	978-981-10-8063-0	Chapter

			<u>Nano-based Novel Drug Delivery Systems in Herbal Medicine-Mediated Cancer Therapy</u>			
22.	December 2017	Anjana Pandey, Saumya Srivastava	Fermentative hydrogen production: Current prospects and challenges	CRC press	Bioenergy and Biofuels 9781138032811	Chapter
23.	December 2017	Anjana Pandey, Thomas Kiran, Archana Tiwari	Algal photobiohydrogen production	CRC press	Bioenergy and Biofuels 9781138032811	Chapter
24.	November 2017	Anjana Pandey	An overview on advances in the nano carriers drug delivery systems In EMR/ESR/EPR Spectroscopy for Characterization of Nanomaterials	Springer	ISBN 978-81-322-3653-5 ISBN 978-81-322-3655-9 (eBook), 65-76	Chapter
25.	2016	Anjana Pandey (Guest Editor in Chief)	Special Issue on Translational Biotechnology, Cellular and Molecular Biology	Omics	E-ISSN : 1165-158X / P-ISSN : 0145-5680	International Journal Special Issue on Translational Biotechnology, Cellular and Molecular Biology
26.	November 2013	Shweta Singh, Anjana Pandey and C.K. Dwivedi	Construction and Operation of Membrane-less Single Chambered	McGraw Hill Education (India) Pvt. Ltd., New Delhi	ISBN (13): 978-9-33-290137-7 ISBN (10): 9-33-290137-6	Chapter 250-256

			Microbial Fuel Cell			
27.	June 2013	Archana Tiwari, Anjana Pandey	Algal Biofuels Natural and Artificial Photosynthesis: Solar Power as an Energy Source 243-266	Wiley	ISBN 978-1-118- 16006-0	Chapter
28.	2011	Anjana Pandey, R.S. Dubey	Photoproduction of Hydrogen through Biological Route Using Reverse Micelles	Treatise on Photo physiology, 193-206	ISBN: 978-81- 921414-1-1	Chapter
29.	2010	Archana Tiwari, Anjana Pandey	Cyanobacterial toxins Algal Biotechnology: New Vistas	Daya Publishing house	ISBN 81-7035- 647-4, ISBN: 978- 81-7035-647-9	Chapter

Project(s) Undertaken:

- **Brought DST-FIST Level I (2017-2022) support of 83 Lakhs for upliftment of teaching/research in Department of Biotechnology, MNNIT Allahabad.**
- **Developed MOU for five years (2015-2020), September 24, with Victoria University, Melbourne, Australia.**

S. No.	Title of the project	Funding agency /organization	Duration (Month/year-Month/ Year)	Amount sanctioned (INR)	PI/Co-PI/Mentor	Status (Ongoing/ completed)
1.	Development of a Nano Biosensor for prognosis of gastrointestinal perforation using FABP-2 as biomarker	INUP-i2i, IIT Delhi	January 2025 – till now	INUP funded	PI	Ongoing
2.	Designing metal organic frameworks based electrochemical sensor for the detection of an anticancer drug imatinib	INUP-i2i, IIT Delhi	May 2023 – November, 2024	INUP funded	Co-PI	Completed 2025
3.	Augmentation of fermentative biohydrogen production by using nanoparticles and immobilization techniques for mitigating biowastes	DST Women Scientist scheme A	July 2019- Dec 2022	28,89400	Mentor	Completed 2019
4.	Integrated bio-hydrogen production from renewable biomass and biological wastes using microbial strains	DBT, GoI	March 28, 2014- December 27, 2017	48,19,000	PI	Completed 2017
5.	Mission Mode project on Hydrogen Production through biological routes	MNRE, GoI	December 16 2009-December 16, 2015	45,50,000	PI	Completed 2017
6.	Generation of improved photovoltaic devices for making efficient Dye Sensitized solar cells	DST, GoI	2009 July-2013	38,00,000	Co-PI	Completed 2014
7.	Potential role of nanoparticles in plant pathogen detection at early stage	DBT, GoI	2007 May 15- 2010 March (2011)	62,81,000	PI	Completed 2012
8.	Algal Biotechnology	Indo-Norwegian	2008-2010	--	Co-I	Completed 2009
9.	Designing and Generation of novel efficient biotags and drug – carriers (nano gold, Fe ₂ O ₃ and doped Y ₂ O ₃) via	DST, GoI	October 2006- October 2010	19,47,000	PI	Completed 2008

	Sol – Gel process (with and without reverse micelles)					
10.	Molecular mapping of the gene(s) conferring resistance to Powdery Mildew in Black Gram	DST-ILTP Integrated long term project Indo-Russian	12/07/2003-2008	15,15,000	PI	Completed 2006
11.	Fabrication of biosensor for toxicity detection using fluorescent nano-crystals bio-conjugates	DST-DAAD Indo-German	2005-2007	2,22,000	PI	Completed 2005
12.	Increased hydrogen production from microorganisms within reverse micelles	DST-SERC Young Scientist	2003-2006	5,28,000	PI	Completed 2005

Institute (MNNIT Allahabad) funded research projects (Seed Grant)

1.	Amplification and overexpression of hyd and nif genes from H ₂ producing microorganisms to increase H ₂ yield	MNNIT Institute Grant	2013-2015	2.00
2.	Isolation and characterization of H ₂ producing microbes & Optimization of pretreatment procedures for solubilisation of biological/lignocellulosic wastes	TEQIP-II MNNIT Institute Grant	2013-2018	5.00

Student's Project

S.No.	Title of project	Year	Grant	Budget	PI
1	Amplification of fdhF/hydA gene and overexpression in suitable microbial strain for increased hydrogen production	2013	TEQIP II	0.40	PI
2	Study of biochemical and molecular marker under biotic and abiotic stress in black gram	2013	TEQIP II	0.40	PI