**Achievements of Dr. P. P. Kundu**

1. ***Working as Professor at the Department of Chemical Engineering, Indian Institute of Technology, Roorkee from 3rd May,2016 to till date.***
2. **Worked as Professor, Department of Polymer Sc & Technology, University of Calcutta from 29 th Sept, 2008 to 2nd May, 2016.**
3. **Worked as Professor in Chemical Technology, SLIET, Longowal from 5 th March, 2007 to 28 th Sept, 2008.**
4. **Worked as Head, Department of Polymer Sc & Technology, University of Calcutta from 2 nd Nov, 2010- 1 st Nov, 2012.**
5. **Worked as Head, Department of Chemical Technology, SLIET(Deemed University of GOI), Longowal, Pb-148106** **from 1st April, 2005 to 31 st March, 2008.**
6. **Worked as Member, Senate of University of Calcutta from 2nd Februaty, 2012 to 1 st Nov, 2012.**
7. Worked as a Member of Senate, SLIET (Deemed University of GOI), Longowal, Pb-148106.
8. Member BOG, SLIET Longowal (For a year 1 st January, 2007 to 31 st Dec, 2007).
9. Coordinating/ coordinated fifteen sponsored research projects worth >375 lakhs.
10. Worked as coordinator, Person with Disabilities scheme (MHRD, New Delhi) from 1 st Sept, 2004 to 30 th Nov, 2005.
11. **Published one hundred forty eight research papers in peer reviewed international journals of repute, published six book chapters** and published ten papers in national/international conferences. My published research papers are well cited by international scientists in their journals. All most all of the journals are cited more than ten times (**Total citation of my published papers is around 2100**). **Total Impact Factor of my published papers is more than 450.**
12. Ex-Member, BOS- Chemical Engineering, Punjab Technical University, Jalandhar.
13. Guided twelve students for their Ph. D. (three in the process of submission), and another eight students working for their Ph.D under my guidance.
14. Guided Sixteen M. Tech Thesis and several B. Tech. Thesis in SLIET, Longowal.
15. Conducted as Chairman one national level Seminar on “Recent Advances in Polymer Science & Technology” (RAPT-05) on 10-11 th Dec, 2005.
16. Conducted as Chairman one national level Conference on “Advances in Chemical Engineering & Technology” (ACET-07) on 26-27 th March, 2007.

15. **International Talk**: Delivered one international invited talk on the topic of “Polymers in Gene Therapy” at Yonsei Cancer Research Center, Faculty of Medicine, Yonsei University, South Korea on 21 st Dec, 2007.

16. **National Talk:**

1. Delivered one invited talk on the topic “”Polymeric Nanocomposites” during the period of 7-18 th Nov, 2005 for the A. I. C. T. E. sponsored staff development programme, organized by Department of Physics, SLIET, Longowal.
2. Delivered one invited talk on the topic “Polymer Blends & Composites Used in Fuel Cell” during National Conference organized by the School of Physics & Material Science, Thapar University, Patiala during 1-3, Feb 2007.
3. Delivered one invited talk on the topic “Response Surface Methodology as Optimization Tool in Rubber Compounding” at the national seminar organized by Department of Mathematics, SLIET, Longowal during Jan, 19-20, 2007.
4. Delivered one invited talk in the area of Direct methanol fuel cell in AICTE sponsored short tern course, organized by Material Science Center, IIT Kharagpur on 12 Nov, 2012.
5. Delivered one invited talk in the area of Cationic Polymerization and Linseed oil based polymers from cationic polymerizations at the UGC-NRC-M programme organized by the Department of Materials Engineering, IISc, Bangalore on 19 th July, 2012.

17. Qualified GATE examination (GATE-1990) for admission to M. Tech. Programme.

18. Selected Individual Senior Research Fellow (SRF) of CSIR for Ph. D. Programme in the year 1994.

19. **Projects Handled (Total amount Approx. 4.0 crores in 15 projects)**

1. *Ministry of Food Processing Industries (MOFPI) GOI sponsored project on “Development of Anti microbial Polymeric Nanocomposite Film from PET waste for Packaging of Milk and Milk Products” NO. 28/MFPI/R&D/2011 dated 18 th Feb, 2013; Amount: Rs 48,29,100; Status Continuing.*
2. *Council of Scientific and Industrial Research (CSIR) sponsored project on “Microbial Synthesis of Copolymers of Polyhydroxybutyroate from Waste Cooked Oil for Biomedical Applications”. Amount: Approx 15 lakhs; Durarion: Three Years. Status: Continuing.*
3. *DST, Govt. of West Bengal sponsored project on Synthesis of Derivatives of Chitosan and Their IPNs for oral insulin Delivery” (No. 428(sanc.)/ST/P/S7T/2G-7/2011 Dated 31.08.2012; amount: Rs 13,10,000; Duration: Three Years; Status: Continuing.*
4. *AICTE Sponsored MODROBS project on* “Modernization of Polymer Characterization Laboratory in the area of Polymer Biodegradation”, No 8024/RIFD/MOD-295/2011-12 Dated 16.03.2013; Amount 6.5 lakhs; Status: Continuing.
5. *Ministry of New and Renewable Energy (MNRE), GOI sponsored project on “*Development of High Performance Direct Methanol Fuel Cell”: 102/ S6/ 2009 – NT dated 29/09/2010 (59.03 lakhs), duration : three years; status: Continuing.
6. *DST (GOI) sponsored project under “DST-FIST” programme NO SR/FST/ETI-024/2011 ; Amount Rs 117 lakhs; Worked as Coordinator (in the capacity of Head, Department of Polymer Sc & Technology). Conceptualized the project, presented and convinced the experts for its funding. Status: Continuing.*
7. University Grants Commission sponsored project on “Development of Elastomers from Vegetable Oils and Vibration damping Characterization through a fabricated machine”; Amount: Rs 10, 09, 300; Duration : 3 years; Status: completed. Worked as Principal Investigator.
8. AICTE sponsored MODROBS project on “Modernization of Polymer Characterization Laboratory in the area of Polymer Biodegradation” *8024/RIFD/MOD-316/2011-12*; Amount: Rs15 lakhs. Duration: Two Years. Status: Completed.
9. Ministry of Environment and Forests (GOI) sponsored project on “Production of Bioelectricity from Sludge and Domestic wastewater using Microbial Fuel Cell” (Rs45,49,600); Duration : 3 years; Status: completed. Worked as Principal Investigator.
10. Nanoscience and Nantechnology center, University of Calcutta sponsored project on Modified Chitosan as nonviral vector in gene therapy (Rs 2lakhs and a senior Research Fellow). Completed, Worked as Principal Investigator.
11. Nanoscience and Nantechnology center, University of Calcutta sponsored project on Delivery of Antisense oligonucleotides (ASO) to the androgen receptor of prostate cancer cells by nanoparticles: a prospective antitumoral strategy (Rs 2lakhs and a senior Research Fellow). Completed. Worked as Co-Principal Investigator.
12. *AICTE Research sponsored project on “*Modified Chitosan as Nonviral vector in Gene therapy*” (Rs11,60,000);* F.No. - 8023/BOR/RID/RPS-19-9-10 dated 31/3/2010; *duration two years. Status: Completed.*
13. Council for Scientific and Industrial Research (New Delhi) sponsored project on “Design and Development of Bridge Bearing based on Metal Reinforced Rubbers”. Duration : 2 years; Status: Completed (Rs2,00,000). Worked as Principal Investigator.
14. Ministry of Human Resource Development (New Delhi) sponsored project on *“*Development of PET waste based Polyurethanes and its modeling studies”. Duration 3.5 years; Status: Completed (Rs10,00,000). Worked as Co-Principal Investigator.
15. Council for Scientific and Industrial Research (New Delhi) sponsored project on “Development of Novel Micro-porous Polyolefin Films for Disposable Diaper”. Duration 3 years; Status: completed (Rs7,50,000). Worked as Principal Investigator.
16. **My-self is the First Engineering faculty in SLIET who got a chance to work as a Post doc fellow in abroad (S. Korea).** During my 1-st post doctoral tenure of a year at the Department of Chemical Engineering, Inha University, S. Korea, I published eight papers.
17. **Worked for a year as a post doctoral fellow at the Iowa State University, USA** and published six papers; one in ACS Publication and another three in JAPS of Wiley Publications.
18. **I worked with Prof. Y. G. Shul of Yonsei University, South Korea for approximately three months** (summer vacation, June, 2006 to August, 2006) for the development of novel membranes for direct Methanol Fuel Cell. Published two papers from this work.

**23. International recognition**

1. To get a chance to work as a post doctoral fellow at three different laboratories of USA and S. Korea is a type of international recognition.
2. The scientist of international community shows immense interest in my published research papers.
3. ***Reviewer of international journals like Journal of Applied Polymer Science, Polymer, Reactive & Functional Polymers, RAPRA, Polymer for advanced Technologies etc.***
4. ***Working as expert for evaluating Ph.D thesis of IIT Kharagpur, Tezpur University, CIPET, Madras.***

**List of Publications of Professor P. P. Kundu**

**One hundred eighty research papers have been published in international journals of repute (with 468 total impact factors and around 3500 total citations with present H-Index of 28, i10 index of 84).**

**Numbers of published papers with Impact Factor between 3 and 5 : 47**

**Numbers of published papers with Impact Factor more than 5 : 21**

**Year 2018 (Four Publication)**

1. Singh, Amandeep; Kumari, Kamlesh; Kundu, Patit Paban (2018) : Microbial, Physicochemical, and Sensory Analyses-Based Shelf Life Appraisal of White Fresh Cheese Packaged into PET Waste-Based Active Packaging Film, **Journal of Packaging Technology and Research (springer, USA)** **DOI :**10.1007/s41783-018-0034-5; JPAC-D-17-00019.4
2. Bhattacharyya, Aditi; Nasim, Farhat; Mishra, Roshnara; Bharti, Ram P.; Kundu, P. P.(2018):Polyurethane- incorporated Chitosan/alginate core-shell nano-particles for controlled oral insulin delivery, **Journal of Applied Polymer Science (Wiley & Sons, USA; IF 1.9)**, In Press.
3. Bhowmick, Arundhati; Pramanik, Nilkamal; Mitra, Tapas; Gnanamani, Arumugam; Das, Manas; Kundu, Patit Paban (2018): Organically modified clay supported chitosan/hydroxyapatite-zinc oxide nanocomposites with enhanced mechanical and biological properties for the application in bone tissue engineering**,** **International Journal of Biological Macromolecules (Elsevier Sc, UK, I.F. 3.1**), **106, 11-19**.

doi: 10.1016/j.ijbiomac.2017.07.168.

1. Mukhopadhyay, [Piyasi;](http://pubs.rsc.org/en/results?searchtext=Author%3APiyasi%20Mukhopadhyay) Maity, Subhajit; Mondal, Sudipta; Chkarborty, Abhay Sankar; Prajapati, A. K.; Kundu, P. P.(2018): Preparation, characterization and in vivo evaluation of pH sensitive, safe quercetin-succinylated chitosan-alginate core-shell-corona nanoparticle for diabetes treatment, **Carbohydrate Polymers (Elsevier Science, Impact Factor 5.2), 182, 42-51.**
2. Bhowmick, Arundhati; Weatherman, D.; Kundu, P. P. ; Sykes, A. G. (2016): Polypyrrole‐Coated Magnetite Fe3O4 Nanoparticles Containing an Anthraquinone Crown Ether Macrocycle Used for the Extraction of Cu (II) Ion from Water, Advances in Polymer Technology (Wiley & Sons, I.F. 1.1), 37/1, 235–239. DOI: 10.1002/adv.21661.

**Year 2017 (Fourteen Publications)**

1. Dutta, K.; Rana, D.; Han, H. S.; Kundu, P. P. (2017): Unitized Regenerative Fuel Cells: A Review on Developed Catalyst Systems and Bipolar Plates, **Fuel Cells (Wiley &Sons, IF 2.1)**, **17/6, 736–751.**
2. Mukherjee, S.; Roy Choudhury, U.; Kundu, P. P. (2017)**:** Bio-degradation of polyethylene via complete solubilisation by the action of Pseudomonas fluorescens, bio-surfactant produced by Bacillus licheniformis and anionic surfactant, **Journal of Chemical Technology and Biotechnology (Wiley & Sons, IF-3.1**), In Press.
3. Papiya, Farhan; Nandy, Arpita; Mondal, Sudipta and Kundu, P. P. (2017) :Co/Al2O3-rGO nanocomposite as cathode electrocatalyst for superior oxygen reduction in microbial fuel cell applications: The effect of nanocomposite composition, **Electrochimica Acta (Elsevier Sc, UK, IF 4.8*),*** 254, 1-13.
4. Bhowmick, Arundhati; Pramanik, Nilkamal; Mitra, Tapas; Gnanamani, Arumugam; Das, Manas; Kundu, Patit Paban (2017): Mechanical and biological investigations of chitosan–polyvinyl alcohol based ZrO2 doped porous hybrid composites for bone tissue engineering applications, **New Journal of Chemistry (Royal Chemical Society, UK, I. F. 3.22).** 41**, 7524-7530.**
5. Khamrai, Moumita; Banerjee, Sovan Lal; Kundu, Patit P. (2017): Modified bacterial cellulose based self-healable polyeloctrolyte film for wound dressing application, **Carbohydrate Polymers** (**Elsevier Science, Impact Factor 4.8**). 174, 580-590. doi: 10.1016/j.carbpol.2017.06.094.
6. Bhattacharyya, Aditi; Mukherjee, Debarati; Mishra, Roshnara; Kundu, P. P. (2017): Preparation of polyurethane –alginate/chitosan core shell nanoparticles for the purpose of oral insulin delivery, **European Polymer Journal** (**Elsevier Science, Impact Factor 3.2**).  92, 294-313.
7. Pattanayak, P.; Pramanik, N.; Kumar, P. and Kundu, P. P. (2017): Fabrication of cost-effective non-noble metal supported on conducting polymer composite such as copper/polypyrrole-graphite oxide (Cu2O/PPy-GO) as an anode catalyst for methanol oxidation in DMFC, **International Journal of Hydrogen Energy**, **(Elsevier Sc, I.F. 3.2)**, In Press.
8. Maitya, S.; Mukhopadhyay, P.; Kundu, P. P. and Chakraborti, A. S. (2017), Alginate coated chitosan core-shell nanoparticles for efficient oral delivery 2 of naringenin in diabetic animals - an in vitro and in vivo approach, **Carbohydrate Polymers** (**Elsevier Science, Impact Factor 4.8**). 170, 124-132. doi: 10.1016/j.carbpol.2017.04.066.
9. Kumar, V.; Rudra, R.; Nandy, A.; Hait, S.and Kundu, P. P. (2017): Analysis of partially sulfonated low density polyethylene (LDPE) membranes as separators in microbial fuel cells, **RSC Advances** (**Royal Chemical Society, UK, I. F. 3.8),** 7, 21890–21900.
10. Mukherjee,S.; RoyChoudhury, U.; Kundu, P. P. (2017): Anionic surfactant induced oxidation of low density polyethylene followed by its microbial bio-degradation, **International Bio deterioration and Biodegradation (Elsevier Sc, I.F. 2.43)**, 117, 255-268.
11. Bhowmick, Arundhati; Pramanik, Nilkamal; Jana, Piyali; Mitra, Tapas; Gnanamani, Arumugam; Das, Manas; Kundu, Patit Paban (2017): Development of bonelike zirconium oxide nanoceramic modified chitosan based porous nanocomposites for biomedical application, **International Journal of Biological Macromolecules (Elsevier Sc, UK, I.F. 3.1),** 95, 348-356, http://dx.doi.org/10.1016/j.ijbiomac.2016.11.052.
12. Bhowmick, Arundhati; Pramanick, Nilkamal; Mitra, Tapas; Banerjee, Soval Lal; Gnanamani, Arumugam; Das, Manas and Kundu, Patit Paban (2017): Fabrication of porous magnetic nanocomposites for bone tissue engineering, **New Journal of Chemistry** (**Royal Chemical Society, UK, I. F. 3.22**), 41 (1), 190-197.
13. Rudra, R.; Kumar, V.; Pramanik, N.; Kundu, P. P. (2017): Graphite oxide incorporated crosslinked polyvinyl alcohol and sulfonated styrene nanocomposite membrane as separating barrier in single chambered microbial fuel cell, **Journal of Power Sources (Elsevier Sc., UK; IF-6.2),** 341, 285-293.
14. Singh, Amandeep; Kumari, Kamlesh; Kundu, Patit Paban (2017): Extrusion and Evaluation of Chitosan assisted AgNPs immobilized film derived from waste Polyethylene terephthalate for food packaging applications**, Journal of Packaging Technology and Research (springer, USA)**, 1, 165–180 <https://doi.org/10.1007/s41783-017-0017-y>.

**Year 2016 (Twenty two Publications)**

1. Dutta, Kingshuk; Das, Suparna; Kundu, Patit P. (2016): Polyaniline nanowhiskers induced low methanol permeability and high membrane selectivity in partially sulfonated PVdF-co-HFP membranes, **RSC Advances** (**Royal Chemical Society, UK, I. F. 3.8),** 2016, 6, 107960.
2. Pramanik, Nilkamal; Dutta, Kingshuk; Basu, Ranjan; Kundu, Patit P. (2016): Aromatic π-Conjugated Curcumin on Surface Modified Polyaniline/Polyhydroxyalkanoates based 3D Porous Scaffold for Tissue Engineering Application, **ACS Biomaterials Science & Engineering (American Chemical Society, USA; I. F. 3.2), 2(12),** **2365-2377**.
3. Banerjee, Sovan Lal; Khamrai, Moumita; Kundu, P. P.; Singha Nikhil K; (2016) [Synthesis of a self-healable and pH responsive hydrogel based on an ionic polymer/clay nanocomposite](http://pubs.rsc.org/is/content/articlehtml/2016/ra/c6ra01074a)**, RSC Advances** (**Royal Chemical Society, UK, I. F. 3.8),** 6 (85), 81654-81665.
4. Mukhopadhyay, [Piyasi;](http://pubs.rsc.org/en/results?searchtext=Author%3APiyasi%20Mukhopadhyay) Maity, Subhajit; Chakraborty, Sandipan; Rudra, Ruchira; Ghodadara, Hiral; Solanki, Manisha; Chkarborty, Abhay Sankar; Prajapati, A. K.; Kundu,P. P.(2016): Oral delivery of quercetin to diabetic animals using novel pH responsive carboxypropionylated chitosan/alginate microparticles, **RSC Advances** (**Royal Chemical Society, UK, I. F. 3.8),** 6 (77), 73210-73221.
5. Jana, Piyali; Sarkar, Kishor; Mitra, Tapas; Chatterjee, Abhishek; Gnanamani, A; Chakraborty, Gopal; Kundu, P. P. (2016): [Preparation of guar gum scaffold film grafted with ethylenediamine and fish scale collagen, cross-linked with ceftazidime for wound healing application](http://www.sciencedirect.com/science/article/pii/S0144861716308517), **Carbohydrate Polymers** (**Elsevier Science, Impact Factor 4.0**), 153, 573-581.
6. Bhowmick, Arundhati; Jana, Piyali; Pramanick, Nilkamal; Mitra, Tapas; Banerjee, Soval Lal; Gnanamani, Arumugam; Das, Manas and Kundu, Patit Paban (2016):Multifunctional zirconium oxide doped chitosan based hybrid nanocomposites as bone tissue engineering materials, **Carbohydrate Polymers** (**Elsevier Science, Impact Factor 4.0**), 151, 879–888.
7. Kumar, Vikash; Kumar, Piyus; Nandy, Arpita; Kundu, Patit Paban (2016): [A Nanocomposite membrane composed of nano-alumina within sulfonated PVDF-co-HFP/Nafion blend as separating barrier in a single chambered microbial fuel cell](https://scholar.google.co.in/citations?view_op=view_citation&hl=en&user=0oUMSG0AAAAJ&citation_for_view=0oUMSG0AAAAJ:2KloaMYe4IUC), **RSC Advances** (**Royal Chemical Society, UK, I. F. 3.8),** 6 (28), 23571-23580.
8. Kumar, Vikash; Kumar, Piyus; Nandy, Arpita; Kundu, Patit Paban (2016): [Analysis of polybenzimidazole and polyvinylpyrrolidone blend membranes as separating barrier in single chambered microbial fuel cells](https://scholar.google.co.in/citations?view_op=view_citation&hl=en&user=0oUMSG0AAAAJ&cstart=100&pagesize=100&citation_for_view=0oUMSG0AAAAJ:ZfRJV9d4-WMC), **Biochemical Engineering Journal (Elsevier Sc, UK, I. F. 2.1)**, 111, 34-42.
9. Kumar, Vikash; Mandal, Sudipta; Nandy, Arpita; Kundu, Patit Paban (2016): [Fabrication of laminated and coated Nafion 117 membranes for reduced mass transfer in microbial fuel cells](https://scholar.google.co.in/citations?view_op=view_citation&hl=en&user=0oUMSG0AAAAJ&cstart=100&pagesize=100&citation_for_view=0oUMSG0AAAAJ:NJ774b8OgUMC), **RSC Advances** (**Royal Chemical Society, UK, I. F. 3.8),** 6 (26), 21526-21534.
10. Nandy, Arpita; Kumar, Vikash; Kundu, Patit Paban (2016): Effect of electric impulse for improved energy generation in mediatorless dual chamber microbial fuel cell through electroevolution of Escherichia coli, Biosensor and bioelectronics **(Elsevier Sc, UK; I.F. 7.47), 79, 796-801. DOI: 10.1016/j.bios.2016.01.023.**
11. Bhattacharyya, Aditi; Mukhopadhyay, Piyasi; Pramanik Nilkamal; Kundu, Patit P. (2016) : Effect of Polyethylene Glycol on Bis(2-hydroxyethyl) terephthalate-Based Polyurethane/Alginate pH-Sensitive Blend for Oral Protein Delivery, **Advances in Polymer Technology (Wiley & Sons, I.F. 1.1**), 35(1). DOI: 10.1002/adv.21525
12. Dutta, Kingshuk; Das, Suparna; Kundu, Patit Paban (2016): Effect of the presence of partially sulfonated polyaniline on the proton and methanol transport behavior of partially sulfonated PVdF membrane, **Polymer Journal (Nature Group, UK; I.F. 1.7),** 48, 301-309. doi:10.1038/pj.2015.106.
13. Banerjee, S.L.; Khamrai, M.; Sarkar, K.; Singha, N. K.; Kundu, P. P. (2016): m[odified chitosan encapsulated core-shell Ag Nps for superior antimicrobial and anticancer activity](http://www.sciencedirect.com/science/article/pii/S0141813015302555), **International Journal of Biological Macromolecules** (**Elsevier, Impact Factor 3.2**), 85, 157-167. [doi:10.1016/j.ijbiomac.2015.12.068](http://dx.doi.org/10.1016/j.ijbiomac.2015.12.068).
14. Mukherjee, S.; Choudhury, U R; Kundu, P. P. (2016): [Bio-degradation of Polyethylene Waste By Simultaneous Use of Two Bacteria: Bacillus licheniformis for production of Bio-surfactant and Lysinibacillus fusiformis for Bio-degradation.](https://scholar.google.co.in/citations?view_op=view_citation&hl=en&user=0oUMSG0AAAAJ&cstart=100&pagesize=100&citation_for_view=0oUMSG0AAAAJ:VL0QpB8kHFEC) **RSC Advances** **(Royal Chemical Society, UK, I. F. 3.8),** 6 (4), 2982-2992.**DOI:** 10.1039/C5RA25128A.
15. Dutta, Kingshuk; Das, Suparna; Kundu, Patit Paban (2016): Highly methanol resistant and selective ternary blend membrane composed of sulfonated PVdF-co-HFP, sulfonated polyaniline and nafion, ***Journal of Applied Polymer Science* (John Wiley and Sons, Impact Factor – 1.7),** **133 (15), 43294.**
16. Bhowmick, Arundhati; Mitra, Tapas; Gnanamani, Arumugam; Das, Manas and Kundu, Patit Paban (2016): Development of biomimetic nanocomposites as bone extracellular matrix for human osteoblastic cells, **Carbohydrate Polymers** (**Elsevier Science, Impact Factor 4.0**). 141, 82-91. [doi:10.1016/j.carbpol.2015.12.074](http://dx.doi.org/10.1016/j.carbpol.2015.12.074).
17. Jana, Piyali; Sarkar, Kishor; Mitra, Tapas; Chatterjee, Abhishek; Gnanamani, A; Chakraborty, Gopal; Kundu, P. P. (2016): Synthesis of a carboxy methylated guar gum grafted polyethyleneimine copolymer as an efficient gene delivery vehicle, **RSC Advances** **(Royal Chemical Society, UK, I. F. 3.8),** 6 (17), 13730-13741.
18. Das, Rakesh; Banerjee, Sovan Lal; Kumar, Rajesh; Kundu, P. P. Development of sustainable elastomeric engineering bio-nanocomposites from vegetable oil with improved mechanical stability and shape memory properties, **Journal of Industrial and Engineering Chemistry (Elsevier Sc, UK; I.F. 3.5).** 35, 388-399.
19. Das, Rakesh; Banerjee, Sovan Lal; Kumar, Rajesh; Kundu, P. P. (2016): [Fabrication and characterization of in situ graphene oxide reinforced high-performance shape memory polymeric nanocomposites from vegetable oil](https://scholar.google.co.in/citations?view_op=view_citation&hl=en&user=0oUMSG0AAAAJ&cstart=100&pagesize=100&citation_for_view=0oUMSG0AAAAJ:_Re3VWB3Y0AC), RSC Advances **(Royal Chemical Society, UK, I. F. 3.8),** 6 (33), 27648-27658.
20. Bhattarchaya, Aditi; Mukherjee, Debarati; Misra, Rosonara; Kundu, Patit Paban (2016): [Development of pH sensitive polyurethane–alginate nanoparticles for safe and efficient oral insulin delivery in animal models](https://scholar.google.co.in/citations?view_op=view_citation&hl=en&user=0oUMSG0AAAAJ&cstart=100&pagesize=100&citation_for_view=0oUMSG0AAAAJ:fEOibwPWpKIC), **RSC Advances** **(Royal Chemical Society, UK, I. F. 3.8),**  6 (48), 41835-41846.
21. Pramanik, N.; Dey, J.; Basu, R. K.; Rath, T.; Kundu, P. P. (2016): [Fabrication of magnetite nanoparticle doped reduced graphene oxide grafted polyhydroxyalkanoate nanocomposites for tissue engineering application](https://scholar.google.co.in/citations?view_op=view_citation&hl=en&user=0oUMSG0AAAAJ&cstart=100&pagesize=100&citation_for_view=0oUMSG0AAAAJ:VLnqNzywnoUC), RSC Advances **(Royal Chemical Society, UK, I. F. 3.8),**  6 (52), 46116-46133.
22. Das, S.; Datta, K.; Kundu, P. P. (2016): [Sulfonated polypyrrole matrix induced enhanced efficiency of Ni nanocatalyst for application as an anode material for DMFCs](https://scholar.google.co.in/citations?view_op=view_citation&hl=en&user=0oUMSG0AAAAJ&cstart=100&pagesize=100&citation_for_view=0oUMSG0AAAAJ:evX43VCCuoAC), **Materials Chemistry and Physics** **(Elsevier Sc, UK, I.F. 2.4),** 176, 143-151.

**Year 2015 (Twenty Eight Publications)**

1. Mukherjee, S.; Choudhury, U R; Kundu, P. P. (2015): Biotic oxidation of polyethylene by using bio-surfactant produced by B.licheniformis: A novel technique, **RSC Advances** **(Royal Chemical Society, UK, I. F. 3.8),** 5 (92), 75089-75097.
2. Bhowmick, Arundhati; Pramanik, Nilkamal; Jana Manna, Piyali; Mitra, Tapas; Selvaraj, Thirupathi Kumara Raja; Gnanamani, Arumugam; Das, Manas and Kundu, Patit Paban (2015): Development of porous and antimicrobial CTS-PEG-HAP-ZnO nano-composites for bone tissue engineering, **RSC Advances** **(Royal Chemical Society, UK, I. F. 3.8),** 5 (120), 99385-99393**.**
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4. Mukhopadhyay, [Piyasi;](http://pubs.rsc.org/en/results?searchtext=Author%3APiyasi%20Mukhopadhyay)  Kundu, [Patit Paban (2015): Chitosan-graft-PAMAM / alginate core-shell nanoparticles: A safe and promising oral insulin carrier in Animal Model,](http://pubs.rsc.org/en/results?searchtext=Author%3APatit%20Paban%20Kundu) **[RSC Advances](http://pubs.rsc.org/en/results?searchtext=Author%3APatit%20Paban%20Kundu)****[(Royal Chemical Society, UK, I. F. 3.8),](http://pubs.rsc.org/en/results?searchtext=Author%3APatit%20Paban%20Kundu)** [5 (114), 93995-94007](http://pubs.rsc.org/en/results?searchtext=Author%3APatit%20Paban%20Kundu)**[.](http://pubs.rsc.org/en/results?searchtext=Author%3APatit%20Paban%20Kundu)**
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3. Sharma, Vinay, Banait, J. S. and **Kundu, P. P.**:Swelling Kinetics of Linseed Oil Based Nanocomposites. ***Journal of Applied Polymer Science* (Impact Factor : 1.7)** ***ISSN: 1097-4628*** *(John Wiley & Sons, USA).* 114, 446-456.
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5. **Kundu, P. P.** and Larock, R. C. (2009): Effect of different Driers on the Structure and Properties of Thermally Polymerized Conjugated Linseed oil - Styrene - Divinylbenzene Copolymers. ***Progress in Organic Coatings* (Impact Factor: 2.4) *ISSN: 0300-9440*** *(Elsevier Publishers, UK)*, 65/1, 10-18.
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2. Sharma, Vinay and **Kundu, P. P.**: Synthetic Polymeric Vectors in Gene Therapy, Current Opinion in Solid State and Material Science **(Impact Factor: 6.2)**, **ISSN:** 1359-0286 *(Elsevier, UK),* 12, 12, 89-102.[doi:10.1016/j.cossms.2009.01.005](http://dx.doi.org/10.1016/j.cossms.2009.01.005).
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2. Kumari,. Kamlesh and **Kundu, P. P.** (2007): Semi-interpenetrating Polymer networks (IPNs) of Chitosan & l-Alanine for Monitoring the Release of Chlorphenramine maleate. ***Journal of Applied Polymer Science***(**Impact Factor: 1.7**)***;*** ***ISSN: 1097-4628*** (*John Wiley & Sons, USA)*, 103, 3751-3757.
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2. Sharma, Vinay and **Kundu, P. P.** (2006):Addition Polymers from Natural Oils—A Review. ***Progress in Polymer Science (Impact Factor: 26.3) ISSN: 0079-6700*** *(Elsevier Publishers, UK),* 31, 983-1006.

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1. **Kundu, P. P.** and Larock, R. C. (2005): Novel Conjugated Linseed oil-Styrene-Divinylbenzene Copolymers Prepared by Thermal Polymerization 1. Effect of Monomer Concentration on the Structure and Properties. ***Biomacromolecules (Impact Factor: 5.8) ISSN: 1526-4602*** *(American Chemical Society)*, *6/2,* 797-806.

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1. Biswas, J., Kim, H., **Kundu, P. P.**, Park, Y. and Choe, S. (2003): Linear Low Density Polyethylene (LLDPE)/ Zeolite Microporous Composite Film. ***Macromolecular Research* (Impact Factor: 1.6)**, ***ISSN: 1598-5032*** *(Korean Polymer society, Korea)*11(5), 357-367.
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2. Kukreja, T. R., Kumar, D., Chauhan, R. C., Prasad, K., Choe, S. and **Kundu, P. P**. (2002): Optimization of Physical and Mechanical Properties of Rubber Compounds by Response Surface Methodology - Two Component Modeling using Vegetable oil and Carbon Black. ***European Polymer Journal*****(Impact Factor: 3.0)**, ***ISSN: 0014-3057*** *(Elsevier Publishers, UK)* 38, 1417-1422.
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**Year 2001 (Two Publications)**

1. **Kundu, P. P.** and Kundu, M. (2001): Effect of Salts and Surfactant and Their Doses on the Gelation of Extremely Dilute Solutions of Methyl Cellulose. ***Polymer*** (**Impact Factor 3.6),** ***ISSN: 0032-3861*** *(Elsevier Publishers, UK)* 42/5, 2015-2020.
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**Year 2000 (One Publication)**

1. **Kundu, P. P.** (2000): Improvement of Filler-rubber interaction by the Coupling Action of Vegetable oil in Carbon Black Filled Reinforced Rubber. ***Journal of Applied Polymer Science* (Impact Factor: 1.7), *ISSN: 1097-4628*** *(John Wiley & Sons, USA)* 75, 735-739.

**Year 1999 (One Publication)**

1. **Kundu, P. P.**, Choudhury, R. N. P. and Tripathy, D. K. (1999): Influence of Blend Compositions on the Physical, Flame Retardency, Dielectric, Ageing and Solvent Resistance Properties of Poly[ethylene-(vinylacetate)] and Polychloroprene. ***Journal of Applied Polymer Science* (Impact Factor: 1.7), *ISSN: 1097-4628*** *(John Wiley & Sons, USA)* 71(4), 551-556.

**Year 1998 (One Publication)**

1. **Kundu, P. P.** and Tripathy, D. K. (1998): Rheological Properties of Poly[ethylene-co-(methylacrylate)], Polychloroprene and their Blends. ***Polymer*** (**Impact Factor 3.6),**  ***ISSN: 0032-3861*** *(Elsevier Publishers, UK)* 39/10, 1869-1864.

**Year 1997 (Three Publications)**

1. **Kundu, P. P**., Tripathy, D. K and Gupta, B. R. (1997): Blends of Poly[ethylene(vinyl-acetate)], and Polychloroprene- Studies on Capillary and Dynamic Flows. ***Journal of Applied Polymer Science* (Impact Factor: 1.7), *ISSN: 1097-4628*** *(John Wiley & Sons, USA)* 63, 187-193.
2. **Kundu, P. P.**, Bhattacharya, A. K. and Tripathy, D. K. (1997): Rheological Properties of the Blends of Polychloroprene and Poly[ethylene(vinylacetate)].  ***Journal. of Applied Polymer Science* (Impact Factor: 1.7), *ISSN: 1097-4628*** *(John Wiley & Sons, USA)* 66, 1759-1765.
3. **Kundu, P. P.** and Tripathy, D. K. (1997): Influence of Filler-Polymer Interactions on the Cure Mismatch of Dissimilar Polymeric Blends. ***Journal of Applied Polymer Science* (Impact Factor: 1.7), *ISSN: 1097-4628*** *(John Wiley & Sons, USA)* 64, 321-328.

**Year 1996 (Six Publications)**

1. **Kundu, P. P.** and Tripathy, D. K. (1996): Effect of Crystalline Parameters on Thermal Transitions and Mechanical Relaxations- Studies on Miscible Blends of Ethylene Vinyl Acetate Copolymers with Polychloroprene. ***Kautschuk Gummi Kunststoffe*****(Impact Factor: 0.2),** ***ISSN: 0948-3276*** *(Huethig Publishers, Germany)* 49/4, 268-273.
2. **Kundu, P. P.**, Banerjee, S. and Tripathy, D. K. (1996): 1HNMR and FTIR Spectroscopic Studies on the Blends of Polychloroprene with Polyethylene vinyl acetate. ***International Journal of Polymeric Materials ISSN: 1563-535X*** *(Gordon- Breach Publishers, USA)* 32, 125-134. (Impact Factor: ).
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**Year 1995 (one Publication)**

1. **Kundu, P. P.** and Tripathy, D. K. (1995): Blends of Polychloroprene with Ethylene-Vinyl Acetate Copolymer Miscibility Studies. ***Polymer Networks & Blends* ISSN: 0893-6684** *(ChemTec Publishing, Canada)* 5/1, 11-18. (Impact Factor: ).