CV -AKR



Name and correspondence address
Dr. Aravind Kumar Rengan, MBBS, M.Tech,Ph.D
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Academic Qualification (Undergraduate Onwards)

S. No	Degree	Year	Subject	University/ Institution
1.	M.B.B.S	2007	Medicine & Surgery	TN Govt. Dr. MGR Medical University
2.	M.Tech (University Rank holder)	2010	Nanomedical Science	Amrita Vishwa Vidhyapeetam
3.	Ph.D. (Best Thesis Awardee)	2015	Biomedical Engineering	IIT Bombay

Work Experience (in chronological order).

S. No.	Positions held	Name of the Institute	Duration
1.	CRRI (House Surgeon)	Thanjavur Medical College	Mar 2006 - Mar 2007
2.	Institute Teaching Assistant	IIT Bombay, India	July 2010 - Apr 2013
3.	Teaching Assistant under Project	IIT Bombay, India	May 2013 – Oct 2014
4.	Research Associate	IIT Bombay, India	Nov 2014 - July 2015
5.	Assistant Professor	IIT Hyderabad, India	Aug 2015 – Oct 2021
6.	Associate Professor	IIT Hyderabad, India	Oct 2021 – April 2026
7.	Professor	IIT Hyderabad, India	April 2026- Till date

Professional Recognition/ Award/ Fellowship (Selected)

S. No	Name of Award	Awarding Agency	Year
1	**Faculty Patents Excellence Award**	**IIT Hyderabad**	**2026**
2	Institute Teaching Excellence Award	IIT Hyderabad	2024
3	G D NAIDU Young Scientist Award	People's Thinking Forum -TN	2023
4	**MERK Young Scientist Award**	MERK Science Foundation	2023
5	SERB – Biomedical -PAC Member (till 2025)	DST-SERB	2022
6	SIRE Fellowship (Univ of Alberta)	DST-SERB	2022
7	Institute Research Excellence Award	IIT Hyderabad	2021
8	**Selected for BRICS Young Scientist Forum**	**BRICS**	**2021**
9	INYAS Member (till 2024)	INYAS-INSA	2020
10	**NASI Young Scientist Medal**	**NASI**	2018
11	**INAE Young Engineer Award**	**INAE**	2018
12	**INSA Young Scientist Medal**	**INSA**	2017
13	**Gandhian Young Technology Innovation Award**	**DBT-BIRAC**	**2017**
14	**Innovative Young Biotechnologist Award (IYBA)**	**DBT, Government of India**	**2016**
15	Inspire Faculty Award (Biomedical)	DST, Government of India	2015
16	Institute's Award for Excellence in PhD	IIT Bombay, India	2015

Research Interests and Expertise (up to five keywords): Cancer nanotechnology, Photothermal therapy, Triggered drug delivery, Biomaterials, Nanotoxicology, Anti-Microbial Resistance (AMR) and Theranostics

Research Contribution Statistics:
ORCID ID: 0000-0003-3994-6760; Scopus Author Identifier: 58158015000

Description	Number	Description	Number
Journals publications	170	Books/Book chapters	35
First/Corresponding author	130	Patents – Published/filed	115
Total citation	4456	Patents - Granted	66
h-index	35	Conference abstracts/papers	20
i10-index	92	Total extramural funding as PI (Lakhs)	~ 1200
Cumulative impact factor	~ 300	Total extramural funding as Co-PI (Lakhs)	~ 2300

*Citation/h-index/ i10-index Source: Google Scholar

Selected Publications (Top 20) (* Corresponding author)

1. Karmakar, Rounik; Eswar, Kalyani; Verma, Anamika ….**A.K.Rengan***, Carboxymethyl inulin functionalized gold nanoclusters within a chitosan matrix for biocompatible photothermal and anticancer theranostics. ***International journal of biological macromolecules****.In Press*. [Impact Factor: 8.5]
2. Appidi, T., China, D., Ștefan, …….**A.K.Rengan**, Wilfred Ngwa*, Engineered multifunctional nanoparticles for enhanced radiation therapy: three-in-one approach for cancer treatment. ***Mol Cancer*** 24, 68 (2025). [Impact Factor: 33.9]
3. Revi, N.; Nandeshwar, M.; Harijan, D.; Sankaranarayanan, S.A.; Joshi, M.; Prabusankar, G.; A.K. Rengan*. Acridine Benzimidazolium Derivatives Induced Protective Microglia Polarization and *In Silico* TDP-43 Interaction─Potential Implications for Amyotrophic Lateral Sclerosis. *ACS Chemical Neuroscience*. 2025, 16(6), 1103. [Impact Factor: 3.9]
4. Pogu, S.V.; Yadav, D.N.; Buddhiraju, H.S.; Basa, A.; Veeresh, B.; A.K. Rengan*. Phage-augmented casein nanocarriers for targeted bioimaging and enhanced combinatorial therapy of triple-negative breast cancer. *Nanoscale*. 2025, 17(32), 18948. [Impact Factor: 5.1]
5. Patnam, S.; Singh, A.D.; Ali, M.S.; Thakur, B.K.; A.K. Rengan; Manda, S.V. Development and *In Vitro* Characterization of Milk-Derived Extracellular Vesicle-Mithramycin Formulations for Potential Glioma Therapy. *Molecular Pharmaceutics*. 2025, 22(6), 2881. [Impact Factor: 4.5]
6. Karmakar, R.; Dixit, M.; Eswar, K.; Bhattacharjee, B.; Apoorva, B.; Gubige, M.; Sengottaiyan, A.; Pati, F.; A.K. Rengan*. Enhanced wound healing properties by sodium alginate-carboxymethyl cellulose hydrogel enriched with decellularized amniotic membrane. *European Journal of Pharmaceutics and Biopharmaceutics*. 2025, 207. [Impact Factor: 4.3]
7. Putta, C.L.; Buddhiraju, H.S.; Yadav, D.N.; Basa, A.; A.K. Rengan*. Baicalein and IR780 Coloaded Liposomes for Antifungal and Anticancer Therapy. *ACS Applied Bio Materials*. 2025, 8(1), 661. [Impact Factor: 4.7]
8. Sankaranarayanan, S.A.; Yadav, D.N.; Yadav, S.; Srivastava, A.; Pramatha, S.R.; Rao, K.V.; Joshi, H.; A.K. Rengan*. Tailoring Phage Nanosomes for Enhanced Theranostic Properties of Near Infrared Dyes. *Langmuir*. 2024, 40(32), 16743. [Impact Factor: 3.9]
9. Ali, M.S.; Buddhiraju, H.S.; Gubige, M.; Basa, A.; Gnaneshwar Gupta, K.; Veeresh, B.; A.K. Rengan*. Multifunctional Nanosystem for Dual Anti-Inflammatory and Antibacterial Photodynamic Therapy in Infectious Diabetic Wounds. *ACS Infectious Diseases*. 2024, 10(8), 2978. [Impact Factor: 3.8]
10. Khatun, S.; Pebam, M.; Sankaranarayanan, S.A.; Pogu, S.V.; Bantal, V.S.; A.K. Rengan*. Glutathione-IR 797 coupled Casein Nano-Trojan for augmenting the therapeutic efficacy of camptothecin in highly invasive triple negative breast cancer. *Biomaterials Advances*. 2024, 159. [Impact Factor: 6.0]

11. Khatun, S.; Kshtriya, V.; Gour, N.; Murugaiyan, K.; A.K. Rengan*. 7-Amino-6H-anthra[9,1-cd] Isothiazol-6-one-Casein Nanosystem for Live Cell Staining and Augmenting Therapeutic Effectiveness in Triple Negative Breast Cancer. *ACS Applied Nano Materials*. 2024, 7(7), 8022. [Impact Factor: 5.5]
12. Yalagala, B.P.; Sankaranarayanan, S.A.; **A.K. Rengan**; Vanjari, S.R.K. Biocompatible, Flexible, and High-Performance Nanowelded Silver Nanowires on Silk Fibroin for Transparent Conducting Electrodes toward Biomemristor Application. ***ACS Sustainable Chemistry & Engineering***. 2022, 10(14), 4473. [Impact Factor: 7.3]
13. S A Sankaranarayanan.....**A.K. Rengan***, In situ thermosensitive H2O2/NO self-sufficient hydrogel for photothermal ferroptosis of triple-negative breast cancer, ***Nanoscale*** (2024)18899. [Impact factor: 5.1]
14. Gayathri Ravichandran,..... **A.K. Rengan***, The Multifaceted Role of Degradable Cobalt Nanoparticles: Dual-Target Starvation and Intracellular Acidification Engendering LC3-Associated Whole-Cell Autophagy, ***ACS Materials Letters*** 5 (2023) 272. [Impact Factor: 8.7]
15. Dokkari Nagalaxmi Yadav, Sri Amrutha, ……..**A.K.Rengan***, Bioinspired Gold coated Phage Nanosomes for Anti-Microbial and Anti-CancerTheranostics ***Material Today Nano*** 23(2023)2518. [Impact Factor: 8.2]
16. Syed Baseeruddin Alvi, PS Rajalakshmi,...,**A.K.Rengan*** et al. In Situ Nanotransformable Hydrogel for Chemo-Photothermal Therapy of Localized Tumors and Targeted Therapy of Highly Metastatic Tumors. ***Applied Materials & Interfaces.*** 2021, 13 (47), 55862-55878. [Impact Factor: 8.2]
17. PS R, Alvi SB, Begum N, Veeresh B, **Rengan A. K***. Self-Assembled Fluorosome–Polydopamine Complex for Efficient Tumor Targeting and Commingled Photodynamic/Photothermal Therapy of Triple-Negative Breast Cancer. ***Biomacromolecules***. 2021 Aug 12;22(9):3926-40. [Impact Factor: 5.4]
18. Alvi SB, Rajalakshmi PS, Jogdand A, Sanjay AY, Veeresh B, John R, **Rengan A. K***. Iontophoresis mediated localized delivery of liposomal gold nanoparticles for photothermal and photodynamic therapy of acne. ***Biomaterials Science***. 2021;9(4):1421-30. . [Impact Factor: 5.7]
19. Thomas A, Appidi T, Jogdand AB,….., **Rengan A. K*** et al. Facile synthesis of fluorescent polymer encapsulated metal (PoeM) nanoparticles for imaging and therapeutic applications. ***ACS Applied Polymer Materials***. 2020 Feb 21;2(3):1388-97. [Impact factor: 4.7]
20. Singh SP,…,**A.K.Rengan*** et al., NIR triggered liposome gold nanoparticles entrapping curcumin as in situ adjuvant for photothermal treatment of skin cancer. ***International journal of biological macromolecules***. 2018, 110, 375-382. [Impact Factor: 8.5]

Professional Associations: Royal Society of Chemistry-UK, Indian Association for Cancer Research (IACR), Indian National Young Academy of Sciences (INYAS) Alumnus, State Medical Council-TN, Indian Society of Nano Medicine(ISNM), Electron Microscope Society of India.

Reviewer (Journals) : Biomaterials, ACS Applied Materials & Interfaces, Chemistry Select, ACS Biomaterials Science & Engineering, ACS Sustainable Chemistry & Engineering, Advanced Functional Materials, Bioconjugate Chemistry, Drug Delivery and Translational Research, Bioactive Materials, Journal of Controlled Release and RSC Nanoscale.

Publications: (Last 5 years)

SL. No	Title of the Publication	Name of the Journal	Authors list (bold and underline your Name, put * if corresponding author)	Year of Publication	Volume, issue,pages	Impact Factor	Quartile (Q1, Q2, etc.,)
1	Carboxymethyl inulin functionalized gold nanoclusters within a chitosan matrix for	International Journal of Biological Macromolecules	Karmakar, Rounik; Eswar, Kalyani;	**2026**	151296	8.5	Q1

	biocompatible photothermal and anticancer theranostics		Verma, Anamika; Sankaranarayanan... Madhukar;Falguni Pati; **A K Rengan***				
2	Dual-Mode Phototherapy-Responsive Gold-Coated Algosomes for Enhanced Skin Cancer Therapy via Elimination of Tumor-Resident Intracellular Bacteria	Advanced Therapeutics	Srivastava, Rupali; Bhattacharjee, Basu; Sankaranarayanan, ...Thatikonda, Shashidhar; **Rengan, Aravind Kumar***;	**2026**	e00265	2.6	Q1
3	Development of Gold coated calcium peroxide nanoparticles for photothermal ferroptosis against skin cancer and C. albicans	Communications Chemistry	Sankaranarayanan, Sri Amruthaa; Srivastava, Rupali; ....Jagapathi; Patra, Chittaranjan; **Rengan, Aravind Kumar***;	**2026**	In press	6.2	Q1
4	Gold-Coated Glybosomes Mimicking Physiological Micelles for ROS-Mediated Photothermal Ablation against Cervical Cancer	ACS Applied Bio Materials	Murugaiyan, Kavipriya; Srivastava, Rupali; .....Sandipan; **Rengan, Aravind Kumar***;	**2026**	In Press	4.7	Q1
5	Disposable paper-based electrochemical biosensor employing gC 3 N 4/carbon dots and toll-like receptor for ultrasensitive detection of Gram-negative bacteria	Journal of Materials Chemistry B	Sahu, Pravat Kumar; Bhunia, Shuvankar; Ramesh, ..., Nitisha; **Rengan, Aravind Kumar**; Vanjari, Siva Rama Krishna; Challapalli,	**2026**	In Press	5.8	Q1

			Subrahmanyam;				
6	A multi-endpoint approach to ecotoxicological assessment of wastewater polluted rivers using zebrafish	Environmental Research	Sonkar, Vikas;...; **Rengan, Aravind Kumar**; Kreft, Jan-Ulrich; Thatikonda, Shashidhar..; Graham, David W;	**2026**	282,121 996	7.7	Q1
7	Multitargeted Anticancer Strategy through DNA Damage and Mitochondrial Collapse by a Ferrocene-Benzimidazolium Salt	ACS Applied Bio Materials	Beniwal, Nitisha; Lahkar, Bikash; Ramakant, Girbide Amitkumar; Putta, Chandra Lekha; **Rengan, Aravind Kumar***; Prabusankar, Ganesan*;	**2026**		4.7	Q1
8	Engineered multifunctional nanoparticles for enhanced radiation therapy: three-in-one approach for cancer treatment	Molecular Cancer	Appidi, T.; China, D.; Ștefan, G.-R.; Moreau, M.; Mao, S.; Velarde, E.; Toyang, N.; Lowe, H.; **Rengan, A.K**.; Ding, K.; Ngwa, W.	**2025**	24, 1	33.9	Q1
9	A multi-endpoint approach to ecotoxicological assessment of wastewater polluted rivers using zebrafish	Environmental Research	Sonkar, V.; Sasidharan, S.S.; Jambu, S.C.; **Rengan, A.K.**; Kreft, J.-U.; Shashidhar, S.	**2025**	282	7.7	Q1
10	Green-synthesized silver nanoparticles from chitosan and ethylene glycol: a comparative study of antibacterial efficacy and wound-healing potential	Advances in Natural Sciences: Nanoscience and Nanotechnology	Gangwar, R.; Rao, K.T.; Khatun, S.; **Rengan, A.K**.; Subrahmanyam, C.; Vanjari, S.R.K.	**2025**	16, 3	2.1	Q2

11	Self-assembled redox sensitive mixed micelles of paclitaxel: Evaluation on 3D tumor spheroids, lung biodistribution, pharmacokinetics, optical and ultrasound/photoacoustic imaging for lung cancer therapy	International Journal of Pharmaceutics	Setia, A.; Mehata, A.K.; **Rengan, A.K.;** S Muthu, M.S.	**2025**	681	5.2	Q1
12	Selective Sensing of the Fluoride Ion in Water and B16F10 Cells by Naphthoimidazolium Salts	ACS Applied Bio Materials	Rai, R.K.; Putta, C.L.; Lahkar, B.; Rawat, A.; Sahu, A.; Matsumoto, K.; Tsutsumi, O.; **Rengan, A.K***.; Prabusankar, G*.	**2025**	8, 8, 6999	4.7	Q1
13	Phage-augmented casein nanocarriers for targeted bioimaging and enhanced combinatorial therapy of triple-negative breast cancer	Nanoscale	Pogu, S.V.; Yadav, D.N.; Buddhiraju, H.S.; Basa, A.; Veeresh, B.; **Rengan, A.K***.	**2025**	17, 32, 18948	5.1	Q1
14	Label-free impedimetric immunosensing of pathogenic E. coli O157:H7 using amine functionalized carbon	Analyst	Kumar Sahu, P.; Gangwar, R.; Ramesh, A.; Trinadha Rao, K.; Beniwal, N.; **Rengan, A.K**.; Vanjari, S.R.K.; Subrahmanyam , C.	**2025**	150, 15, 3465	3.3	Q2
15	Fluorine-Substituted Rhenium(I) Metallocycle: A New Class of Potent Anticancer Agent	Chemistry - An Asian Journal	Borkar, R.L.; Putta, C.L.; Shankar, B.; Bhattacharjee, B.; **Rengan, A.K***; Sathiyendiran, M*.	**2025**	20, 11	3.3	Q2
16	Development and In Vitro Characterization of Milk-Derived Extracellular Vesicle-Mithramycin Formulations for Potential Glioma Therapy	Molecular Pharmaceutics	Patnam, S.; Singh, A.D.; Ali, M.S.; Thakur, B.K.; **Rengan, A.K**.; Manda, S.V.	**2025**	22, 6, 2881	4.5	Q1
17	Aloe vera-driven green synthesis of silver nanoparticles: a facile approach for superior antibacterial activity and enhanced wound-healing	Applied Nanoscience (Switzerland)	Gangwar, R.; Rao, K.T.; Khatun, S.; **Rengan, A.K.**; Subrahmanyam , C.; Vanjari, S.R.K.	**2025**	15, 3	2.1	Q2
18	Self-assembly induced dual-wavelength active photothermal and photodynamic therapies using a near-infrared triimide dye nanoformulations	Nanoscale	Srideep, D.; Khatun, S.; Putta, C.L.; Pramatha, S.R.; **Rengan, A.K***; Rao, K.V*.	**2025**	17, 20, 12751	5.1	Q1

19	Acridine Benzimidazolium Derivatives Induced Protective Microglia Polarization and In Silico TDP-43 Interaction–Potential Implications for Amyotrophic Lateral Sclerosis	ACS Chemical Neuroscience	Revi, N.; Nandeshwar, M.; Harijan, D.; Sankaranarayanan, S.A.; Joshi, M.; Prabusankar, G.; **Rengan, A.K***.	**2025**	16, 6, 1103	3.9	Q1
20	One-pot synthesis of tunable fluorescent polyethylene glycol (PEG) polymer for antimicrobial and anticancer theranostics	MedComm - Biomaterials and Applications	Yadav, D.N.; Harijan, D.; Pogu, S.V.; Prabusankar, G.; **Rengan, A.K***.	**2025**	4, 1	4.04	Q2
21	Gold nanocages co-assembled with Spinacia oleracea extract combined photothermal/photodynamic therapy in 4T1 breast cancer cell line	Biomedical Materials (Bristol)	Dehariya, D.; Tarafdar, A.; Pebam, M.; Sankaranarayanan, S.A.; Khatun, S.; **Rengan, A.K*.**	**2025**	20, 2	3.5	Q2
22	Silk-polyurethane composite based flexible electrochemical biosensing platform for pathogen detection	Biosensors and Bioelectronics	Rao, K.T.; Gangwar, R.; Bhagavathi, A.; Khatun, S.; Sahu, P.K.; Putta, C.L.; **Rengan, A.K.**; Subrahmanyam, C.; Garlapati, S.K.; Krishna Vanjari, S.R.	**2025**	271	10.5	Q1
23	Hyaluronic-Acid-Functionalized Tofacitinib Loaded Transethosomes for Targeted Drug Delivery in Rheumatoid Arthritis	ACS Applied Bio Materials	Chowdary, P.; Puppala, E.R.; Putta, C.L.; Maddila, J.R.; Pulavarthy, V.; Rajendra Prasad, V.V.S.R.; **Rengan, A.K***.	**2025**	8, 2, 1594	4.7	Q1
24	Effect of Rb substitution on dielectric, ferroelectric, mechanical and biocompatibility properties of Na0.2K0.3Bi0.5TiO3 ceramics	Materials Chemistry and Physics	Sahu, R.K.; Khatun, S.; **Rengan, A.K.;** Asthana, S.	**2025**	332	4.7	Q1
25	Enhanced wound healing properties by sodium alginate-carboxymethyl cellulose hydrogel enriched with decellularized amniotic membrane	European Journal of Pharmaceutics and Biopharmaceutics	Karmakar, R.; Dixit, M.; Eswar, K.; Bhattacharjee, B.; Apoorva, B.; Gubige, M.; Sengottaiyan, A.; Pati, F.; **Rengan, A.K***.	**2025**	207	4.3	Q1
26	Baicalein and IR780 Coloaded Liposomes for Antifungal and Anticancer Therapy	ACS Applied Bio Materials	Putta, C.L.; Buddhiraju, H.S.; Yadav, D.N.; Basa, A.; **Rengan, A.K***.	**2025**	8, 1, 661	4.7	Q1

27	Amyloid-like Aggregation Propensities of Metabolites-Homogentisic Acid, N-Acetyl Aspartic Acid and Isovaleric Acid	ChemBioChem	Dave, R.; Jaiswal, A.; Naseer, A.; Tripathi, A.; Patel, M.; Revi, N.; **Rengan, A.K**.; Dutta Dubey, K.; Nazir, A.; Verma, S.; Gour, N.	**2024**	25, 23	2.8	Q2
28	Copper-assisted anticancer activity of hydroxycinnamic acid terpyridine conjugates on triple-negative breast cancer	Dalton Transactions	Roy, A.; Khatun, S.; Dewale, P.D.; **Rengan, A.K.**; Chinta, J.P.	**2024**	53, 46, 18640	3.3	Q2
29	Barium Sulfate Nanocomposites for Bioimaging and Chemo-photothermal Therapy of Physiologically Aggravated Lung Adenocarcinoma Cells	ACS Applied Bio Materials	Pogu, S.V.; Yadav, D.N.; Sankaranarayanan, S.A.; **Rengan, A.K.**	**2024**	7, 9, 6213	4.7	Q1
30	Self-assembled IR dye/mitoxantrone loaded Porphysomes nanosystem for enhanced combinatorial chemo-photothermal cancer therapy	Colloids and Surfaces B: Biointerfaces	Pebam, M.; Khatun, S.; Ali, M.S.; Srivastava, A.; **Rengan, A.K.**	**2024**	241	5.6	Q1
31	Tuning the Flavin Core via Donor Appendage for Selective Subcellular Bioimaging and PDT Application	Chemistry - A European Journal	Agrawal, H.G.; Khatun, S.; **Rengan, A.K***.; Mishra, A.K*.	**2024**	30, 46	3.7	Q1
32	Tailoring Phage Nanosomes for Enhanced Theranostic Properties of Near Infrared Dyes	Langmuir	Sankaranarayanan, S.A.; Yadav, D.N.; Yadav, S.; Srivastava, A.; Pramatha, S.R.; Rao, K.V.; Joshi, H.; **Rengan, A.K*.**	**2024**	40, 32, 16743	3.9	Q1
33	Multifunctional Nanosystem for Dual Anti-Inflammatory and Antibacterial Photodynamic Therapy in Infectious Diabetic Wounds	ACS Infectious Diseases	Ali, M.S.; Buddhiraju, H.S.; Gubige, M.; Basa, A.; Gnaneshwar Gupta, K.; Veeresh, B.; **Rengan, A.K*.**	**2024**	10, 8, 2978	3.8	Q1
34	Sodium copper chlorophyllin-loaded chitosan nanoparticle-based photodynamic therapy for B16 melanoma cancer cells	Chemical Biology and Drug Design	Shinde, V.R.; Khatun, S.; Thanekar, A.M.; Bhattacharjee, B.; **Rengan, A.K*.**	**2024**	104, 2	3.3	Q2
35	Omeprazole-Loaded Copper Nanoparticles for Mitochondrial Damage Mediated Synergistic Anticancer Activity against Melanoma Cells	ACS Applied Bio Materials	Eswar, K.; Sankaranarayanan, S.A.; Srivastava, R.; Harijan, D.; Prabusankar,	**2024**	7, 7, 4795	4.7	Q1

			G.; **Rengan, A.K*.**				
36	Melanin-Ce6-loaded polydopamine nanoparticles-based enhanced phototherapy for B16 melanoma cancer cells	Nanotechnology	Shinde, V.R.; Thanekar, A.M.; Khatun, S.; Buddhiraju, H.S.; Bhattacharjee, B.; **Rengan, A.K*.**	**2024**	35, 29	3.5	Q2
37	Amyloid Mimicking Assemblies Formed by Glutamine, Glutamic Acid, and Aspartic Acid	ACS Chemical Neuroscience	Jaiswal, A.; Patel, M.; Naseer, A.; Kumari, S.; Revi, N.; **Rengan, A.K.;** Jain, A.; Nazir, A.; Gour, N.; Verma, S.	**2024**	15, 11, 2253	3.9	Q1
38	Cancer cell membrane cloaked fluorescent liposomes loaded with metal-phenolic complex nanoparticles for combinatorial therapy against breast cancer	Applied Materials Today	Patra, P.; Khatun, S.; Karmakar, R.; Pebam, M.; **Rengan, A.K***.	**2024**	38	6.9	Q1
39	Hexagon Gold Nanoring-Mediated Combined Phototherapy for the Treatment of B16 Melanoma Cell Line	ACS Applied Nano Materials	Dehariya, D.; Buddhiraju, H.S.; Khatun, S.; Thanekar, A.M.; **Rengan, A.K***.	**2024**	7, 10, 12194	5.5	Q1
40	Glutathione - IR 797 coupled Casein Nano-Trojan for augmenting the therapeutic efficacy of camptothecin in highly invasive triple negative breast cancer	Biomaterials Advances	Khatun, S.; Pebam, M.; Sankaranarayanan, S.A.; Pogu, S.V.; Bantal, V.S.; **Rengan, A.K***.	**2024**	159	6	Q1
41	7-Amino-6H-anthra[9,1-cd] Isothiazol-6-one-Casein Nanosystem for Live Cell Staining and Augmenting Therapeutic Effectiveness in Triple Negative Breast Cancer	ACS Applied Nano Materials	Khatun, S.; Kshtriya, V.; Gour, N.; Murugaiyan, K.; **Rengan, A.K***.	**2024**	7, 7, 8022	5.5	Q1
42	Magnesium-Catalyzed Dye-Embedded Polylactide Nanoparticles for the Effective Killing of Highly Metastatic B16F10 Melanoma Cells	ACS Omega	Sagar, S.; Pebam, M.; Sinha, R.; **Rengan, A.K**.; Panda, T.K.	**2024**	9, 13, 14860	4.3	Q1
43	Telomerase: a nexus between cancer nanotherapy and circadian rhythm	Biomaterials Science	Ghosh, P.K.; Rao, M.J.; Putta, C.L.; Ray, S.; **Rengan, A.K***.	**2024**	12, 9, 2259	5.7	Q1
44	Accelerating Diabetic Wound Healing by Modulating the Inflammatory Environment Using Quercetin–Rosemary Oil Lipid Nanoemulsions with Artificial Intelligence-Based Wound Closure Analysis	Advanced Therapeutics	Ali, M.S.; Pebam, M.; Buddhiraju, H.S.; Dey, S.; Bantal, V.S.; Ganapathy, N.;	**2024**	7, 3	2.6	Q1

			Madhavan, D.; **Rengan, A.K***.				
45	Differential Expression of SRY-Related HMG-Box Transcription Factor 2, Oligodendrocyte Lineage Transcription Factor 2, and Zinc Finger E-Box Binding Homeobox 1 in Serum-Derived Extracellular Vesicles: Implications for Mithramycin Sensitivity and Targeted Therapy in High-Grade Glioma	ACS Pharmacology and Translational Science	Patnam, S.; Majumder, B.; Joshi, P.; Singh, A.D.; Balakrishna, B.; Kumar, D.; Biswas, M.; Ranjan, A.; Majumder, P.K.; **Rengan, A.K**.; Kamath, A.V.; Ray, A.; Manda, S.V.	**2024**	7, 1, 137	5	Q1
46	Development and Characterization of Biocompatible Cellulose Acetate Substrate for Flexible Electrochemical Biosensors	IEEE Journal on Flexible Electronics	Rao, K.T.; Gangwar, R.; Bhagavathi, A.; Khatun, S.; Sahu, P.K.; **Rengan, A.K**.; Subrahmanyam, C.; Garlapati, S.K.; Vanjari, S.R.K.	**2024**	3, 7, 312	3	Q2
47	Bioinspired Photoresponsive Algosomes as a Nanocarrier for Combating Cancer and Bacterial Infections	ACS Applied Nano Materials	Srivastava, R.; Sankaranarayanan, S.A.; Prajapati, A.; Eswar, K.; Pogu, S.V.; Shashidhar, S.; **Rengan, A.K***.	**2024**	7,20,24, 246	5.5	Q1
48	In situ thermosensitive H2O2/NO self-sufficient hydrogel for photothermal ferroptosis of triple-negative breast cancer	Nanoscale	Sankaranarayanan, S.A.; Eswar, K.; Srivastava, R.; Thanekar, A.M.; Gubige, M.; Bantal, V.S.; **Rengan, A.K***.	**2024**	16, 18899	5.1	Q1
49	A lipo-polymeric hybrid nanosystem with metal enhanced fluorescence for targeted imaging of metastatic breast cancer	Nanotheranostics	Appidi, T.; Sivasankaran, R.P.; Chinchulkar, S.A.; Patra, P.; Murugaiyan, K.; Veeresh, B.; **Rengan, A.K***.	**2024**	8, 2, 239	8.25	Q1
50	IR-775 - Hyptis loaded bioactive nanoparticles for enhanced phyto-photothermal therapy of breast cancer cells	Photodiagnosis and Photodynamic Therapy	Pebam, M.; Ali, M.S.; Khatun, S.; **Rengan, A.K***.	**2023**	44	4.3	Q2
51	Toll-like receptor-immobilized carbon paste electrodes with plasma functionalized amine termination: Towards real-time electrochemical based	Biosensors and Bioelectronics	Gangwar, R.; Ray, D.; Khatun, S.; Subrahmanyam, C.; **Rengan,**	**2023**	241	10.5	Q1

	triaging of gram-negative bacteria		**A.K**.; Vanjari, S.R.K.				
52	Polyethylene glycol-based isolation of urinary extracellular vesicles, an easily adoptable protocol	MethodsX	Singh, A.D.; Patnam, S.; Manocha, A.; Bashyam, L.; **Rengan, A.K***.; Manda, S.V.	**2023**	11	1.9	Q2
53	Green synthesis of multi-functional carbon dots from medicinal plant leaves for antimicrobial, antioxidant, and bioimaging applications	Scientific Reports	Gedda, G.; Sankaranarayanan, S.A.; Putta, C.L.; Gudimella, K.K.; **Rengan, A.K***.; Girma, W.M.	**2023**	13, 1	3.9	Q1
54	PLGA nanoparticle loaded with antioxidants and photosensitizer for ROS shock mediated phototherapy of triple negative breast cancer	Biomedical Materials (Bristol)	Buddhiraju, H.S.; Balaraman, J.; Dehariya, D.; Pebam, M.; Eswar, K.; **Rengan, A.K**.	**2023**	18, 6	3.5	Q2
55	Destabilizing Effect of Organo Ru(II) Salts on the Intermolecular Parallel CGG Repeat DNA Quadruplex Associated with Neurodegenerative/Neuromuscular Diseases	ACS Chemical Neuroscience	Sathyaseelan, C.; Veerapathiran, S.; Das, U.; Ravichandran, G.; Ajjugal, Y.; Singh, J.; **Rengan, A.K**.; Rathinavelan, T.; Prabusankar, G.	**2023**	14, 19, 3646	3.9	Q1
56	The Multifaceted Role of Degradable Cobalt Nanoparticles: Dual-Target Starvation and Intracellular Acidification Engendering LC3-Associated Whole-Cell Autophagy	ACS Materials Letters	Ravichandran, G.; Harijan, D.; Ganapathy, N.; Prabusankar, G.; De, A.; **Rengan, A.K***.	**2023**	5, 10, 2726	8.7	Q1
57	Trinuclear rhenium(i)-based metallocages as anticancer agents towards human cervical cancer cells	Dalton Transactions	Kedia, M.; Khatun, S.; Phukon, U.; Shankar, B.; **Rengan, A.K***.; Sathiyendiran, M.	**2023**	52, 40, 14314	3.3	Q2
58	Exploring urinary extracellular vesicles for organ transplant monitoring: A comprehensive study for detection of allograft dysfunction using immune-specific markers	Clinica Chimica Acta	Singh, A.D.; Balakrishna, B.; Patnam, S.; Satyanaryana, G.; Andrews, R.; Panigrahi, A.K.; Mudigonda, S.S.; Maitra, S.; **Rengan, A.K**.; Manda, S.V.	**2023**	548	2.9	Q1
59	Bioinspired gold coated phage nanosomes for anti-microbial and anti-cancer theranostics	Materials Today Nano	Yadav, D.N.; Sankaranarayanan, S.A.;	**2023**	23	8.2	Q1

			Thanekar, A.M.; **Rengan, A.K***.				
60	Highly active higher coordinated copper(i)-N-heterocyclic chalcogenone catalysed click chemistry	New Journal of Chemistry	Mandal, S.; Harijan, D.; Muduli, G.; Subramaniyam, K.; **Rengan, A.K**.; Prabusankar, G.	**2023**	47, 32, 15027	2.5	Q2
61	Copper iodide microhexagons: a potential therapeutic agent for surface microbial infection and melanoma	Materials Advances	Pogu, S.V.; Yadav, D.N.; Sankaranarayanan, S.A.; Srivastava, R.; Shashidhar, S.; **Rengan, A.K***.	**2023**	4, 13, 2853	4.7	Q1
62	Insight into the Effect of Stabilizers on Anticancer and Antibacterial Activity of AgBiS2 Nanomaterial	Chemistry - A European Journal	Joseph, A.; Khatun, S.; Sai Hemanth Kumar, D.; **Rengan, A.K***.; Krishnamurthi, K.	**2023**	29, 34	3.7	Q1
63	An Isothiazolanthrone-Based Self-Assembling Anticancer Color-Changing Dye for Concurrent Imaging and Monitoring of Cell Viability	Chemistry - An Asian Journal	Gour, N.; Kshtriya, V.; Khatun, S.; Bandyopadhyay, S.; Ghosh, R.; Koshti, B.; Singh, R.; Haque, A.; Devidas Bhatia, D.; Ballabh Joshi, K.B.; Boukhvalov, D.W.; Nath, S.; **Rengan, A.K***.	**2023**	18, 9	3.3	Q2
64	Ethosomal Nanoformulations for Combinational Photothermal Therapy of Fungal Keratitis	Advanced Therapeutics	Sushma, M.V.; Sankaranarayanan, S.A.; Bantal, V.S.; Pemmaraju, D.B.; **Rengan, A.K***.	**2023**	6, 5	2.6	Q1
65	An Easily Accessible NIR-Absorbing Tetraimide Dye and its Biotherapeutics Based Photothermal and Photodynamic Therapy	ChemBioChem	Srideep, D.; Khatun, S.; **Rengan, A.K***.; Rao, K.V.	**2023**	24, 8	2.8	Q2
66	Development of a Point-of-Care Cervico-Vaginal Sampling/Testing Device for the Colorimetric Detection of Cervical Cancer	Diagnostics	Appidi, T.; Vakada, M.; Buddhiraju, H.S.; Chinchulkar, S.A.; Kota, A.; Yadav, D.N.; Kodandapani, S.; Simhabhatla, S.K.; **Rengan, A.K***.	**2023**	13, 8	3.3	Q2

67	Lipid-coated red fluorescent carbon dots for imaging and synergistic phototherapy in breast cancer	Photodiagnosis and Photodynamic Therapy	Shinde, V.R.; Khatun, S.; Thanekar, A.M.; Hak, A.; **Rengan, A.K***.	**2023**	41	2.6	Q2
68	High-Affinity DNA Nanomatrix: A Platform Technology for Synergistic Drug Delivery and Photothermal Therapy	ACS Macro Letters	Prajapati, A.; Srivastava, A.; Sankaranarayanan, S.A.; Pebam, M.; Buddhiraju, H.S.; Patra, P.; Yadav, P.; Joshi, H.; **Rengan, A.K***.	**2023**	12, 2, 255	5.2	Q1
69	Camptothecin loaded casein nanosystem for tuning the therapeutic efficacy against highly metastatic triple-negative breast cancer cells	Biomaterials Science	Khatun, S.; Pebam, M.; Putta, C.L.; **Rengan, A.K***.	**2023**	11, 7, 2518	5.7	Q1
70	Bioactive Polymeric Nanoparticles of Moringa oleifera Induced Phyto-Photothermal Sensitization for the Enhanced Therapy of Retinoblastoma	Pharmaceutics	Mudigunda, S.V.; Pemmaraju, D.B.; Sankaranarayanan, S.A.; **Rengan, A.K**.	**2023**	15, 2	5.5	Q1
71	Identifying stable reference genes in polyethene glycol precipitated urinary extracellular vesicles for RT-qPCR-based gene expression studies in renal graft dysfunction patients	Transplant Immunology	Singh, A.D.; Patnam, S.; Koyyada, R.; Samal, R.; Alvi, S.B.; Satyanaryana, G.; Andrews, R.; Panigrahi, A.K.; **Rengan, A.K**.; Mudigonda, S.S.; Maitra, S.; Manda, S.V.	**2022**	75	1.4	Q2
72	Terminalia chebula Polyphenol and Near-Infrared Dye-Loaded Poly(lactic acid) Nanoparticles for Imaging and Photothermal Therapy of Cancer Cells	ACS Applied Bio Materials	Pebam, M.; Sivasankaran, R.P.; Gangopadhyay, M.; Shashidhar, S.; **Rengan, A.K***.	**2022**	5, 11, 5333	4.7	Q1
73	Label-free miniaturized electrochemical nanobiosensor triaging platform for swift identification of the bacterial type	Analytica Chimica Acta	Gangwar, R.; Rao, K.T.; Khatun, S.; **Rengan, A.K**.; Subrahmanyam, C.; Krishna Vanjari, S.R.	**2022**	1233	6	Q1
74	Characterization and proteome profiling of extracellular vesicles in a murine model of Staphylococcus aureus endophthalmitis	Microbes and Infection	Rudraprasad, D.; Sushma, M.V.; **Rengan, A.K**.; Naik, M.N.; Joseph, J.	**2022**	24, 8	2.7	Q2
75	Chitosan IR806 dye-based polyelectrolyte complex nanoparticles with	International Journal of Biological Macromolecules	Alvi, S.B.; Sivasankaran, R.P.; Jogdand,	**2022**	216, 558	8.5	Q1

	mitoxantrone combination for effective chemo-photothermal therapy of metastatic triple-negative breast cancer		A.B.; Nazia, B.; Bantal, V.S.; **Rengan, A.K***.				
76	Proteomic profiling of exosomes in a mouse model of Candida albicans endophthalmitis	Experimental Cell Research	Gandhi, J.; Sushma, M.V.; **Rengan, A.K**.; Naik, M.N.; Mishra, D.K.; Boyinpally, S.R.; Joseph, J.	**2022**	417, 2	3.5	Q2
77	Ferroelectric polarization of β-polyvinylidene fluoride as control and mitigator of infectious organisms	Materials Today Communications	Sushma, M.V.; Sabarigresan, M.; Jogdand, A.B.; Yadav, D.N.; **Rengan, A.K***.; Ramadurai, R.	**2022**	32	4.5	Q1
78	ZnO nanoparticles embedded silk fibroin - A piezoelectric composite for nanogenerator applications	Nanotechnology	Sarkar, L.; Sushma, M.V.; Yalagala, B.P.; **Rengan, A.K**.; Singh, S.G.; Vanjari, S.R.K.	**2022**	33, 26	3.5	Q2
79	Plasma Functionalized Carbon Interfaces for Biosensor Application: Toward the Real-Time Detection of Escherichia coli O157: H7	ACS Omega	Gangwar, R.; Ray, D.; Rao, K.T.; Khatun, S.; Subrahmanyam, C.; **Rengan, A.K**.; Vanjari, S.R.K.	**2022**	7, 24, 21025	4.3	Q1
80	A study on the role of eugenol encapsulated liposomes in facilitating neuron -microglia mediated wound recovery	Materialia	Revi, N.; Sankaranarayanan, S.A.; **Rengan, A.K***.	**2022**	23	2.9	Q2
81	A plasmon-enhanced fluorescent gold coated novel lipo-polymeric hybrid nanosystem: synthesis, characterization and application for imaging and photothermal therapy of breast cancer	Nanoscale	Appidi, T.; Sivasankaran, R.P.; Chinchulkar, S.A.; V.; Srivastava, R.; Ganesan, P.; **Rengan, A.K***.	**2022**	14, 25, 9112	5.1	Q1
82	Biocompatible, Flexible, and High-Performance Nanowelded Silver Nanowires on Silk Fibroin for Transparent Conducting Electrodes toward Biomemristor Application	ACS Sustainable Chemistry and Engineering	Yalagala, B.P.; Sankaranarayanan, S.A.; **Rengan, A.K**.; Vanjari, S.R.K.	**2022**	10, 14, 4473	7.3	Q1
83	Primary attempt towards bioapplicability of one-dimensional high entropy alloys	Materials Letters	Pavithra, C.L.P.; Sankaranarayanan, S.A.; Pebam, M.; Janardhana, R.K.S.K.; Singh, A.; **Rengan, A.K***.; Dey, S.R*.	**2022**	312	2.7	Q2

84	Alkaloid-rich fraction of Ervatamia coronaria sensitizes colorectal cancer through modulating AMPK and mTOR signalling pathways	Journal of Ethnopharmacology	Dutta, N.; Pemmaraju, D.B.; Ghosh, S.; Ali, A.; Mondal, A.; Majumder, C.; Nelson, V.K.; Mandal, S.C.; Misra, A.K.; **Rengan, A.K**.; Ravichandiran, V.; Che, C.-T.; Gurova, K.V.; Gudkov, A.V.; Pal, M.	**2022**	283	5.4	Q1
85	Multifunctional Polymeric Nanoparticles for Chemo/Phototheranostics of Retinoblastoma	ACS Biomaterials Science and Engineering	Mudigunda, S.V.; Pemmaraju, D.B.; Paradkar, S.; Puppala, E.R.; Gawali, B.; Upadhyayula, S.M.; Vegi Gangamodi, N.; **Rengan, A.K***.	**2022**	8, 1, 151	5.5	Q1
86	Modified Polyethylene Glycol Encapsulated Iron Oxide Nanoparticles for Accelerated Wound Healing Application	IEEE Transactions on Nanotechnology	Thomas, A.; Sankaranarayanan, S.A.; **Rengan, A.K***.	**2022**	21, 1	2.5	Q2
87	A gold(i) 1,2,3-triazolylidene complex featuring the interaction between gold and methine hydrogen	Dalton Transactions	Narayana, M.A.; Vaddamanu, M.; Sathyanarayana, A.; Siddhant, K.; Sugiyama, S.; Ozaki, K.; **Rengan, A.K**.; Velappan, K.; Hisano, K.; Tsutsumi, O.; Prabusankar, G.	**2021**	50, 45, 16514	3.3	Q2
88	Highly fluorescent polyethylene glycol-ascorbic acid complex for imaging and antimicrobial therapeutics	Materials Today Communications	Appidi, T.; Ravichandran, G.; Mudigunda, S.V.; Thomas, A.; Jogdand, A.B.; Kishen, S.; Subramaniyam, K.; Emani, N.; Prabusankar, G.; **Rengan, A.K***.	**2021**	29	4.5	Q1
89	In Situ Nanotransformable Hydrogel for Chemo-Photothermal Therapy of Localized Tumors and Targeted Therapy of Highly Metastatic Tumors	ACS Applied Materials and Interfaces	Baseeruddin Alvi, S.; Sivasankaran, R.P.; Begum, N.; Jogdand, A.B.; Veeresh, B.; **Rengan, A.K***.	**2021**	13, 47, 55862	8.2	Q1

Patents (Filed/Published/Granted) : 115

1. A Fluorescent Zinc-Based Nanocluster And A Method For Preparation Thereof. **Patent No.**- 586368 **(Granted)**
2. A Dual Drug Nanoformulation For Prostate Cancer And Cutaneous Melanoma Theranostics. **Patent No.**- 586396 **(Granted)**
3. Phage nanosomes for NIR dye delivery and methdos of preparation thereof. **Patent No.**- 581819 **(Granted)**
4. Composition for Delivery of Therapeutic Complex Within Golgi Apparatus and Method of Producing The Same. **Patent No.**- 577218**(Granted)**
5. A Liposomes-Based Hybrid Nanosystem And Preparation Thereof. **Patent No.**- 584636 **(Granted)**
6. Liposome of Saussurea Obvallata and Its Process of Preparation. **Patent No.**- 584692 **(Granted)**
7. A Mn-based nanocarrier formulation and a process for preparation thereof. **Patent No.**- 579131 **(Granted)**
8. Betanin-Ir806 Co-Loaded Liposome Nanoparticle Composition And Method Of Preparation Thereof **Patent No.**- 581285**(Granted)**
9. A Liposome Comprising Bronzaphyrin and Method of Preparation Thereof. **Patent No.**- 578847 **(Granted)**
10. A Water soluble Organo Ruthenium(II) Thione Complex And A Method of Preparation Thereof. **Patent No.**- 575978 **(Granted)**
11. Method of Preparation of Supramolecular Hydrogel of Quercetin. **Patent No.**- 575695 **(Granted)**
12. A Nano-liposomal Formulation and a Method of Preparation Thereof. **Patent No.**- 574527 **(Granted)**
13. Ferrocene-Coumarin Complex And A Method Of Preparation Thereof **Patent No.**- 574512 **(Granted)**
14. A Formulation Comprising Iohexol Functionalized Dopamine Compound and a Method of Preparation Thereof. **Patent No.**- 572652 **(Granted)**
15. A process of synthesis for nano-formulation (CDIR@MnNPs). **Patent No.**- 569061 **(Granted)**
16. A Liposomal Composition Comprising A Near Infra-Red Triimide Dye and Method of Preparation Thereof **Patent No. -554537 (Granted)**
17. A nanoparticle formulation comprising copper and omeprazole for chemodynamic therapy against skin cancer **Patent No. -562819 (Granted)**
18. A Phage-Modified Chitosan Nanocarrier and Method of Preparation Thereof **Patent No. -572484 (Granted)**
19. Porphysomal nanosystem for enhanced drug delivery and its method of preparation thereof **Patent No. 562508 (Granted)**
20. A composite Hydrogel and Method of Preparation Thereof **Patent No. -557881 (Granted)**
21. Piperine and IR820 loaded RL liposome nanoparticles for PTT/PDT of cancer and preparation thereof **Patent No. 561323 (Granted)**
22. A Nanoparticle Composition and a Method of Preparation Thereof **Patent No. -569457 (Granted)**
23. A Process for Synthesis of A Nano- Formulation (CDIR@Mnnps) **Patent No. -569061 (Granted)**
24. A modified dye and the method of preparation thereof **Patent No. -562992 (Granted)**
25. Hybrid Cell Membrane Nanosome and a Method of Preparing the Same **Patent No.- 556849 (Granted)**
26. A Biocompatible Lead-Free Material for use as an Orthopedic Implant **Patent No.- 559114 (Granted)**
27. Light-Emitting Fluorescent Molecules and A Method of Preparation Thereof **Patent No. -566735 (Granted)**
28. A Gold-Coated Bimetallic Nanocarrier Composition and Its Method of Preparation **Patent No. -567651 (Granted)**

29. Nano-Formulation for Enhanced Therapeutic Delivery Using NIR Dye 1061 Retinoic Acid and Soy Pc **IPA No. -202441085316 (Granted)**
30. A nanoparticle formulation and a method of preparation thereof **Patent No.- 571851 (Granted)**
31. A Thermosensitive Hydrogel and A Process of Preparation Thereof **Patent No. -567270 (Granted)**
32. A nanoparticle composition and a method of preparation thereof **Patent No. -556512 (Granted)**
33. Rhenium (I)-based supramolecular coordination complexes and method of preparation thereof **Patent No.: -555612 (Granted)**
34. A facial-rheniumtricarbonyl (FAC-RE(CO)3) dinuclear metallocyclic complexes and a method of synthesis thereof **Patent No.: 554296 (Granted)**
35. Co(II) Thione Based Catalyst and Method of Preparation Thereof **Patent No. -571214 (Granted)**
36. A method for producing lipid-based nanocochelates loaded with hydrophobic metformin **Patent No. -549695 (Granted)**
37. Modified PEG-400 (mPEG-AA complex) and uses thereof **Patent No. -549413 (Granted)**
38. Chondroitin sulfate-coated nanoparticle formulation and method of preparation thereof **Patent No. -570030 (Granted)**
39. Compositions for Prevention, Management and Treatment for Mucositis **Patent No. 541652 (Granted)**
40. High Affinity oligonucleotide nano-matrix and a nanocarrier system **Patent No. -566194 (Granted)**
41. Algosomes-Gold (Alg/Au) Complex and Method of Preparation Thereof **Patent No. -570046 (Granted)**
42. Fluorescent Polyethylene Glycol **Patent No. -438126 (Granted)**
43. A detection kit for the diagnosis of cervical cancer by quantification of visual inspection of acetic acid **Patent No. 519065 (Granted).**
44. Liponion as a multi-color fluorescent biolabelling probe. **Patent No. 362071 (Granted).**
45. Photo-disintegrable metal nanoshells for multimodal imaging and passively targeted photothermal therapy of cancer - **Patent No. -519065 (Granted).**
46. TPGS Compromised Gold Coated Poly (Lactic-co-Glycolic acid) Nanostructures and Process for its Preparation **Patent No. 354678 (Granted).**
47. Rhenium(I) Metallocycle and Method of Preparation Thereof **Patent No. 570189 (Granted).**
48. A Nanoparticle Formulation and Preparation Thereof **Patent No. 572652 (Granted).**
49. Thermosensitive hydrogel for cancer therapeutics and methods preparation thereof - **Patent No. 562333- (Granted)**
50. Degradable or Transformable gold coated liposomal nano-construct and a process for its preparation **Patent No. 437191 (Granted)**
51. Pyridine- Substituted Naphthoimidazolium compound and method of preparing the same. **Patent No. 569873 (Granted).**
52. Copper-Based Paddle wheel complex and a process of preparation thereof. **Patent No. 569830 (Granted).**
53. Thermosensitive hydrogel for cancer therapeutics and methods preparation thereof - **USP No.: 17325290 (Granted).**
54. PEG-b-ACA mixture and a method of preparing the same **Patent No. 565336 (Granted).**
55. Melanin- loaded polydopamine nanoparticles and preparation thereof **Patent No. 565009 (Granted).**

56. Barium nanocomposites for bioimaging and chemo- photothermal therapy and process for preparation thereof **Patent No. 557315 (Granted).**
57. A Formulation of Transethosomal For Trageted Drug Delivery And a Method Of Preparing The Same **Patent No. 572660 (Granted).**
58. A Fluid Collection Device for Cervico-Vaginal Fluids **Patent No. 572356 (Granted).**
59. Phage modified calcium peroxide nanoparticles and a method of preparation thereof **Patent No. 563555 (Granted).**
60. Encapsulated nano-formulations of Buparvaquone and methods of preparation thereof **Patent No. 564402 (Granted).**
61. Liposome- Encapsulated Neem Nanoemulsion and a Method of Preparation Thereof **Patent No. 568225 (Granted).**
62. FL-Peg Nanoparticles Encapsulating UGS for Cancer Therapy **Patent No. 569148 (Granted).**
63. Emulsomes for Melanoma Cancer Treatment and Method of Preparation Thereof **Patent No. 569926 (Granted).**
64. Copper (Cu(Ii)) Complex and A Method of Preparation Thereof **Patent No. 570036 (Granted).**
65. Multi-Functional Lipid Nanoemulsions for Dual Therapy of Infectious Diabetic Wounds using Quercetin, CE6, and Rosemary Oil **Patent No. 565406 (Granted).**
66. Self-Assembled Nanoparticle Formulation for Anti-Cancer Acitvity and Methods of Preparation Thereof **Patent No. 569710 (Granted).**
67. A nano formulation, and a method of prreparation thereof **. IPA No.- 202541110978**
68. Liposome nanoparticles formulation and a method of preparation thereof. **IPA No. - 202541081275**
69. Modified PEG-400 (mPEG-AA complex) and uses thereof - **USP No.: 17403964**
70. A Flavin Analogue for Lysosome Tracking and Photodynamic Therapy **IPA No.- 202441000773**
71. A Pharmaceutical Composition and a Method of Preparation Thereof **IPA No. -202441036487**
72. A Wound Dressing for Preventing Biofilm formation on a Wound **IPA No. -202441036378**
73. Chitosan-Conjugated Carboxymethyl Inulin Modified Gold Nanoclusters Incorporating IR-820 and DNA-Conjugated pfhs for Biomedical Application and Preparation Thereof **IPA No. -202441035158**
74. Liposomal Nanoparticles Encapsulting Boldine and Ir- 775 for Therapy Against Metastatic Triple- Negative Breast Cancer and Preparation Thereof **IPA No. -202441034692**
75. A Phage-Modified Casein Nanocarrier Conjugated With Glutathione and Method of Preparation Thereof **IPA No. -202441080547**
76. Pyridine-Substituted Naphthoimidazolium Compound and Method of Preparing The Same **IPA No. - 20244108400**
77. A Nanoparticle Composition and a Method of Preparation Thereof **IPA No. -202441086473**
78. A Functionalized Complex Nanoparticle Composition and a Method of Preparation Thereof **IPA No. - 202441086474**
79. A Pharmaceutical Composition and a Method of Preparation Thereof **IPA No. -202441085921**
80. Supramolecular Hyogels and Method of Preparation Thereof **IPA No. -202441086354**
81. A Nanoliposomal Formulation and a Method of Preparation Thereof **IPA No. -202441086472**

82. A Liposomal Formulation and Preparation Thereof **IPA No. -202441085475**
83. A Nanoparticle Composition Having Anti-Cancer Activity and A Method of Preparation Thereof **IPA No. -202441082537**
84. Gallic Acid and Ir-775 Loaded Liposome Nanoparticles for Phototherapy of Cancer and Preparation Thereof **IPA No. -202441084440**
85. A Nanoliposome Formulation to Enhance The Efficacy of Doxorubicin in Prostate Cancer **IPA No. -202441090417**
86. Solvent-Based Synthesis of Gold Nanostructures for Enhanced Anticancer Efficacy **IPA No. -202441091408**
87. Fluorescent Enhanced Silver Triflate Nanoclusters Using Silver Triflate Precursor **IPA No. -202441101142**
88. A Membrane Cloaked Nanosome **IPA No. -202441036003**
89. Co-Crystal Of Copper Iodide (Cui) Clusters and a Process for Preparation Thereof **IPA No. -202541003577**
90. Resveratrol and coumarin 6 loaded nanoparticle formulation for cancer therapy and preparation thereof **IPA No. -202541009119**
91. A ruthenium-based thione complex having anticancer activity and a method of preparation thereof **IPA No. -202541021105**
92. A ruthenium-based thione complex having anticancer activity and a method of preparation thereof IPA No. -202541021105
93. Ferrocene-coumarin complex and a method of preparation thereof **IPA No. -202541021928**
94. Thulium Containing Caffeic Acid-Terpyridine Mof And A Method Of Preparation Thereof **IPA No. -202541021928**
95. A Ferro-Flexible Antibacterial Composite Film And Method Of Preparation Thereof **IPA No. -202541021928**
96. Drug-Loaded Soya Pc Nanoplatform And Process Of Preparing The Same **IPA No. -202541021928**
97. A Mn-Based Nanocarrier Formulation And A Process For Preparation Thereof **IPA No. -202541021928**
98. A Cyclodextrin- Isatin Nanoparticle Formulation And A Method Of Preparation Thereof **IPA No. -202541021928**
99. Fluorescent Antibacterial Formulation, And Method Of Preparation Thereof **IPA No. -202541021928**
100. Silver-Coated Nanoparticle Formulation And A Method Of Preparation Thereof **IPA No. -202541021928**
101. Liposome Nanoparticle Formulation And A Method Of Preparation Thereof **IPA No. -202541021928**
102. A Method For Synthesizing Gold Coated Calcium Peroxide Nano Particles **IPA No. -202541021928**
103. Bioinspired gold coated phage nanosomes and methods of preparation therefor **IPA No. 202341013944**
104. A multimodal liposomal composition for Naja Naja Venom neutralization and a method for producing the same - **IPA No. 202241024566.**
105. Hybrid Lipo-Polymeric Nanoparticles and Methods of Preparation Thereof- **IPA No. 202141016474**
106. Plant-derived fluorescent nanoparticles for treatment of cancer- **IPA No. 201941030649.**
107. Ferroelectric polymer (β-pvdf) for control and mitigation of Microbes under small voltage signals - **IPA No. 202041050666.**
108. Hybrid polymeric nanoformulation for the treatment and management of Retinoblastoma **IPA No. 2141/CHE/2020**

109. Fluorescent Polymeric NPs as imaging probe- **IPA No. 032865/CHE/2018**
110. Liposomal nanoformulation for treatment of cancer **IPA No. 35668 /CHE/2018**
111. Enzymatically degradable Lipos Au Nanoparticles for Cancer Theranostics - IPA No. 4910/MUM/2015.
112. Modified PEG-400 (mPEG-AA complex) and uses thereof. **IPA No. 4134/CHE/2021**
113. Cyclodextrin–isatin nanoparticle formulation and a method of preparation thereof. **IPA No. 202541064622**
114. Gold-coated radiosensitizing nanoparticles and a process for preparation thereof. **IPA No. 202541128156**
115. Dual-Action Liposomal Formulation: Combining Photothermal Therapy with Human Amniotic Membrane for Cancer Eradication and Tissue Regeneration. **IPA No. 202441085475**

Review Papers

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