

# Usha Nayak

## List of Publications by Year in descending order

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74  
papers

2,260  
citations

218592

26  
h-index

233338

45  
g-index

75  
all docs

75  
docs citations

75  
times ranked

3305  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mesoporous Silica Nanoparticles: A Comprehensive Review on Synthesis and Recent Advances. <i>Pharmaceutics</i> , 2018, 10, 118.	2.0	573
2	Development of risperidone liposomes for brain targeting through intranasal route. <i>Life Sciences</i> , 2016, 163, 38-45.	2.0	85
3	Enhancement of dissolution rate and bioavailability of aceclofenac: A chitosan-based solvent change approach. <i>International Journal of Pharmaceutics</i> , 2008, 350, 279-290.	2.6	75
4	Anti-aging and Sunscreens: Paradigm Shift in Cosmetics. <i>Advanced Pharmaceutical Bulletin</i> , 2019, 9, 348-359.	0.6	69
5	Inclusion Complexation of Etodolac with Hydroxypropyl-beta-cyclodextrin and Auxiliary Agents: Formulation Characterization and Molecular Modeling Studies. <i>Molecular Pharmaceutics</i> , 2017, 14, 1231-1242.	2.3	64
6	Computational modeling for formulation design. <i>Drug Discovery Today</i> , 2019, 24, 781-788.	3.2	59
7	Development and evaluation of sunscreen creams containing morin-encapsulated nanoparticles for enhanced UV radiation protection and antioxidant activity. <i>International Journal of Nanomedicine</i> , 2015, 10, 6477.	3.3	55
8	Antimicrobial peptide polymers: no escape to ESKAPE pathogens—a review. <i>World Journal of Microbiology and Biotechnology</i> , 2020, 36, 131.	1.7	53
9	Glutaraldehyde cross-linked chitosan microspheres for controlled delivery of Zidovudine. <i>Journal of Microencapsulation</i> , 2009, 26, 214-222.	1.2	50
10	Preparation and, in vitro, preclinical and clinical studies of aceclofenac spherical agglomerates. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2008, 70, 674-683.	2.0	49
11	Localized In Situ Nanoemulgel Drug Delivery System of Quercetin for Periodontitis: Development and Computational Simulations. <i>Molecules</i> , 2018, 23, 1363.	1.7	49
12	Targeting SARS-CoV-2 RNA-dependent RNA polymerase: An in silico drug repurposing for COVID-19. <i>F1000Research</i> , 2020, 9, 1166.	0.8	49
13	Novel interpenetrated polymer network microbeads of natural polysaccharides for modified release of water soluble drug: in-vitro and in-vivo evaluation. <i>Journal of Pharmacy and Pharmacology</i> , 2012, 64, 530-540.	1.2	48
14	Targeting SARS-CoV-2 Main Protease: A Computational Drug Repurposing Study. <i>Archives of Medical Research</i> , 2021, 52, 38-47.	1.5	46
15	Chitosan-glucuronic acid conjugate coated mesoporous silica nanoparticles: A smart pH-responsive and receptor-targeted system for colorectal cancer therapy. <i>Carbohydrate Polymers</i> , 2021, 261, 117893.	5.1	45
16	Chronotherapeutic drug delivery for early morning surge in blood pressure: A programmable delivery system. <i>Journal of Controlled Release</i> , 2009, 136, 125-131.	4.8	41
17	Development of mucoadhesive buccal films for the treatment of oral sub-mucous fibrosis: a preliminary study. <i>Pharmaceutical Development and Technology</i> , 2009, 14, 199-207.	1.1	41
18	Novel pH-sensitive IPNs of polyacrylamide-g-gum ghatti and sodium alginate for gastro-protective drug delivery. <i>International Journal of Biological Macromolecules</i> , 2015, 75, 133-143.	3.6	39

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19	Development of ritonavir solid lipid nanoparticles by Box Behnken design for intestinal lymphatic targeting. <i>Journal of Drug Delivery Science and Technology</i> , 2018, 44, 181-189.	1.4	39
20	Development and preclinical evaluation of microneedle-assisted resveratrol loaded nanostructured lipid carriers for localized delivery to breast cancer therapy. <i>International Journal of Pharmaceutics</i> , 2021, 606, 120877.	2.6	35
21	PEGylated liposomes of anastrozole for long-term treatment of breast cancer: <i>in vitro</i> and <i>in vivo</i> evaluation. <i>Journal of Liposome Research</i> , 2016, 26, 28-46.	1.5	30
22	A top-down technique to improve the solubility and bioavailability of aceclofenac: <i>in vitro</i> and <i>in vivo</i> studies. <i>International Journal of Nanomedicine</i> , 2017, Volume 12, 4921-4935.	3.3	29
23	Molecular docking, binding mode analysis, molecular dynamics, and prediction of ADMET/toxicity properties of selective potential antiviral agents against SARS-CoV-2 main protease: an effort toward drug repurposing to combat COVID-19. <i>Molecular Diversity</i> , 2021, 25, 1905-1927.	2.1	29
24	SARS-CoV-2 entry inhibitors by dual targeting TMPRSS2 and ACE2: An <i>in silico</i> drug repurposing study. <i>European Journal of Pharmacology</i> , 2021, 896, 173922.	1.7	29
25	Sustained release optimized formulation of anastrozole-loaded chitosan microspheres: <i>in vitro</i> and <i>in vivo</i> evaluation. <i>Journal of Materials Science: Materials in Medicine</i> , 2011, 22, 865-878.	1.7	28
26	Sonophoresis-mediated permeation and retention of peptide dendrimers across human epidermis. <i>Skin Research and Technology</i> , 2012, 18, 101-107.	0.8	28
27	Multiple approaches for achieving drug solubility: an <i>in silico</i> perspective. <i>Drug Discovery Today</i> , 2020, 25, 1206-1212.	3.2	28
28	Osmotically controlled pulsatile release capsule of montelukast sodium for chronotherapy: Statistical optimization, <i>in vitro</i> and <i>in vivo</i> evaluation. <i>Drug Delivery</i> , 2014, 21, 509-518.	2.5	27
29	Nanomedicine of anastrozole for breast cancer: Physicochemical evaluation, <i>in vitro</i> cytotoxicity on BT-549 and MCF-7 cell lines and preclinical study on rat model. <i>Life Sciences</i> , 2015, 141, 143-155.	2.0	27
30	Hybrid nanostructures: Versatile systems for biomedical applications. <i>Coordination Chemistry Reviews</i> , 2022, 460, 214482.	9.5	25
31	Molecular simulation driven experiment for formulation of fixed dose combination of Darunavir and Ritonavir as anti-HIV nanosuspension. <i>Journal of Molecular Liquids</i> , 2019, 293, 111469.	2.3	23
32	Development and <i>in vivo</i> evaluation of functionalized ritonavir proliposomes for lymphatic targeting. <i>Life Sciences</i> , 2017, 183, 11-20.	2.0	22
33	Combination Therapy and Nanoparticulate Systems: Smart Approaches for the Effective Treatment of Breast Cancer. <i>Pharmaceutics</i> , 2020, 12, 524.	2.0	22
34	Nanoemulgel: A Promising Phase in Drug Delivery. <i>Current Pharmaceutical Design</i> , 2020, 26, 279-291.	0.9	22
35	Host-guest interaction study of Efavirenz with hydroxypropyl- $\beta$ -cyclodextrin and L-arginine by computational simulation studies: Preparation and characterization of supramolecular complexes. <i>Journal of Molecular Liquids</i> , 2018, 259, 55-64.	2.3	18
36	Molecular pathways and role of epigenetics in the idiopathic pulmonary fibrosis. <i>Life Sciences</i> , 2022, 291, 120283.	2.0	18

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37	Chitosan and Enteric Polymer Based Once Daily Sustained Release Tablets of Aceclofenac: In Vitro and In Vivo Studies. <i>AAPS PharmSciTech</i> , 2008, 9, 651-9.	1.5	17
38	Controlled release chitosan microspheres of mirtazapine: In vitro and in vivo evaluation. <i>Archives of Pharmacal Research</i> , 2011, 34, 1919-1929.	2.7	17
39	Evaluation of a mouthrinse containing guava leaf extract as part of comprehensive oral care regimen- a randomized placebo-controlled clinical trial. <i>BMC Complementary and Alternative Medicine</i> , 2019, 19, 327.	3.7	16
40	2,5-Dimethyl-4-hydroxy-3(2H)-furanone as an Anti-biofilm Agent Against Non-Candida albicans Candida Species. <i>Mycopathologia</i> , 2019, 184, 403-411.	1.3	14
41	Asphaltene Aggregation in Aqueous Solution Using Different Water Models: A Classical Molecular Dynamics Study. <i>ACS Omega</i> , 2020, 5, 16530-16536.	1.6	14
42	Prospecting for Cressa cretica to treat COVID-19 via in silico molecular docking models of the SARS-CoV-2. <i>Journal of Biomolecular Structure and Dynamics</i> , 2021, , 1-10.	2.0	14
43	Development of lapatinib nanosponges for enhancing bioavailability. <i>Journal of Drug Delivery Science and Technology</i> , 2021, 65, 102684.	1.4	13
44	A novel long-acting biodegradable depot formulation of anastrozole for breast cancer therapy. <i>Materials Science and Engineering C</i> , 2017, 75, 535-544.	3.8	12
45	The Beginning of a New Era: Artificial Intelligence in Healthcare. <i>Advanced Pharmaceutical Bulletin</i> , 2020, 11, 414-425.	0.6	12
46	Multiparticulate Drug Delivery System of Aceclofenac: Development and In Vitro Studies. <i>Drug Development and Industrial Pharmacy</i> , 2009, 35, 252-258.	0.9	11
47	Optimization of Chronomodulated Delivery System Coated with a Blend of Ethyl Cellulose and Eudragit L100 by Central Composite Design: In Vitro and In Vivo Evaluation. <i>Journal of Pharmaceutical Innovation</i> , 2014, 9, 95-105.	1.1	11
48	Hit identification and drug repositioning of potential non-nucleoside reverse transcriptase inhibitors by structure-based approach using computational tools (part II). <i>Journal of Biomolecular Structure and Dynamics</i> , 2020, 38, 3772-3789.	2.0	11
49	In Vitro Evaluation of Substantivity, Staining Potential, and Biofilm Reduction of Guava Leaf Extract Mouth Rinse in Combination with its Anti-Inflammatory Effect on Human Gingival Epithelial Keratinocytes. <i>Materials</i> , 2019, 12, 3903.	1.3	10
50	Combined experimental and molecular dynamics investigation of 1D rod-like asphaltene aggregation in toluene-hexane mixture. <i>Journal of Molecular Liquids</i> , 2021, 339, 116812.	2.3	9
51	Structure-based docking, pharmacokinetic evaluation, and molecular dynamics-guided evaluation of traditional formulation against SARS-CoV-2 spike protein receptor bind domain and ACE2 receptor complex. <i>Chemical Papers</i> , 2022, 76, 1063-1083.	1.0	9
52	Understanding the Effect of Functionalization on Loading Capacity and Release of Drug from Mesoporous Silica Nanoparticles: A Computationally Driven Study. <i>ACS Omega</i> , 2022, 7, 8229-8245.	1.6	9
53	Development and validation of RP-HPLC method with ultraviolet detection for estimation of montelukast in rabbit plasma: Application to preclinical pharmacokinetics. <i>Journal of Young Pharmacists</i> , 2013, 5, 133-138.	0.1	8
54	Lymphatic Delivery of Anti-HIV Drug Nanoparticles. <i>Recent Patents on Nanotechnology</i> , 2016, 10, 116-127.	0.7	8

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55	Molecular dynamics and structure-based virtual screening and identification of natural compounds as Wnt signaling modulators: possible therapeutics for Alzheimer's disease. <i>Molecular Diversity</i> , 2022, 26, 2793-2811.	2.1	8
56	Gastroretentive Pulsatile Release Tablets of Lercanidipine HCl: Development, Statistical Optimization, and In Vitro and In Vivo Evaluation. <i>Scientific World Journal</i> , The, 2014, 2014, 1-13.	0.8	7
57	Lymphatic Drug Transport and Associated Drug Delivery Technologies: A Comprehensive Review. <i>Current Pharmaceutical Design</i> , 2021, 27, 1992-1998.	0.9	7
58	Recent Updates on Nanocosmeceutical Skin Care and Anti-Aging Products. <i>Current Pharmaceutical Design</i> , 2022, 28, 1258-1271.	0.9	7
59	Recent advances in the development of asenapine formulations. <i>Expert Opinion on Drug Delivery</i> , 2020, 17, 1377-1393.	2.4	6
60	Formulation, Characterization and In Vivo Evaluation of Self-Nanoemulsifying Drug Delivery System for Oral Delivery of Valsartan. <i>Current Nanoscience</i> , 2014, 10, 263-270.	0.7	6
61	Repositioning of antidiabetic drugs for Alzheimer's disease: possibility of Wnt signaling modulation by targeting LRP6 an in silico based study. <i>Journal of Biomolecular Structure and Dynamics</i> , 2022, 40, 9577-9591.	2.0	5
62	Molecular modeling piloted analysis for semicarbazone derivative of curcumin as a potent Abl-kinase inhibitor targeting colon cancer. <i>3 Biotech</i> , 2021, 11, 506.	1.1	5
63	Structurally nanoengineered antimicrobial peptide polymers: design, synthesis and biomedical applications. <i>World Journal of Microbiology and Biotechnology</i> , 2021, 37, 139.	1.7	3
64	Advances and challenges in nintedanib drug delivery. <i>Expert Opinion on Drug Delivery</i> , 2021, 18, 1687-1706.	2.4	3
65	Formulation of Gliclazide Encapsulated Chitosan Nanoparticles: In Vitro and In Vivo Evaluation. <i>Special Publication - Royal Society of Chemistry</i> , 2012, , 77-85.	0.0	3
66	In Silico Drug Repurposing of Penicillins to Target Main Protease of SARS-CoV-2. <i>Pharmaceutical Sciences</i> , 2020, 26, S52-S62.	0.1	3
67	Pharmaceutical applications of radio-frequency identification. <i>Systematic Reviews in Pharmacy (discontinued)</i> , 2012, 3, 24.	0.6	2
68	Long-Acting Formulations: A Promising Approach for the Treatment of Chronic Diseases. <i>Current Pharmaceutical Design</i> , 2021, 27, 876-889.	0.9	2
69	Implications of phase solubility/miscibility and drug-rich phase formation on the performance of co-amorphous materials: The case of Darunavir co-amorphous materials with Ritonavir and Indomethacin as co-formers. <i>International Journal of Pharmaceutics</i> , 2021, 608, 121119.	2.6	2
70	Design and development of surface modified epigallocatechin 3-gallate NanoCubogel for localized delivery to oral submucous fibrosis therapy. <i>Journal of Drug Delivery Science and Technology</i> , 2021, 66, 102911.	1.4	2
71	Enhancing the oral bioavailability of asenapine maleate with bio-enhancer: An in-silico assisted in-vivo pharmacokinetic study. <i>Journal of Drug Delivery Science and Technology</i> , 2022, 70, 103215.	1.4	2
72	Comparative Evaluation of the Effectiveness of a Combination of Absorbable Gelatin Sponge and <i>Calendula officinalis</i> with Absorbable Gelatin Sponge Used Alone as a Hemostatic Agent: An In-Vitro Study. <i>Dentistry Journal</i> , 2022, 10, 76.	0.9	2

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73	Identification of novel small molecule inhibitors for endoplasmic reticulum oxidoreductase 1 $\alpha$ (ERO1 $\alpha$ ) enzyme: structure-based molecular docking and molecular dynamic simulation studies. Journal of Biomolecular Structure and Dynamics, 2021, , 1-15.	2.0	1
74	AN OVERVIEW OF NOVEL AND CONTROLLED DRUG DELIVERY SYSTEMS. Indian Drugs, 2016, 53, 5-12.	0.1	0