

# Shashank Reddy Pinnapireddy

## List of Publications by Year in descending order

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113  
papers

4,279  
citations

136950

32  
h-index

123424

61  
g-index

113  
all docs

113  
docs citations

113  
times ranked

5419  
citing authors

#	ARTICLE	IF	CITATIONS
1	A low molecular weight fraction of polyethylenimine (PEI) displays increased transfection efficiency of DNA and siRNA in fresh or lyophilized complexes. <i>Journal of Controlled Release</i> , 2006, 112, 257-270.	9.9	265
2	Gene delivery using chitosan, trimethyl chitosan or polyethyleneglycol-graft-trimethyl chitosan block copolymers: Establishment of structure-activity relationships in vitro. <i>Journal of Controlled Release</i> , 2008, 125, 145-154.	9.9	229
3	Nonbilayer phase of lipoplex membrane mixture determines endosomal escape of genetic cargo and transfection efficiency. <i>Molecular Therapy</i> , 2005, 11, 801-810.	8.2	220
4	Liposome-polyethylenimine complexes for enhanced DNA and siRNA delivery. <i>Biomaterials</i> , 2010, 31, 6892-6900.	11.4	183
5	Self-Assembled Polyelectrolyte Nanocomplexes between Chitosan Derivatives and Insulin. <i>Journal of Pharmaceutical Sciences</i> , 2006, 95, 1035-1048.	3.3	161
6	Utilising atomic force microscopy for the characterisation of nanoscale drug delivery systems. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2010, 74, 2-13.	4.3	152
7	Phase Behavior of Cationic Amphiphiles and Their Mixtures with Helper Lipid Influences Lipoplex Shape, DNA Translocation, and Transfection Efficiency. <i>Biophysical Journal</i> , 2002, 83, 2096-2108.	0.5	119
8	Poly(vinyl alcohol)-graft-poly(lactide-co-glycolide) nanoparticles for local delivery of paclitaxel for restenosis treatment. <i>Journal of Controlled Release</i> , 2007, 119, 41-51.	9.9	114
9	Transfection with different colloidal systems: comparison of solid lipid nanoparticles and liposomes. <i>Journal of Controlled Release</i> , 2004, 97, 321-332.	9.9	110
10	The potential of glycol chitosan nanoparticles as carrier for low water soluble drugs. <i>International Journal of Pharmaceutics</i> , 2009, 375, 97-106.	5.2	106
11	Biophysical investigation of pulmonary surfactant surface properties upon contact with polymeric nanoparticles in vitro. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2011, 7, 341-350.	3.3	97
12	Lipid coated chitosan-DNA nanoparticles for enhanced gene delivery. <i>International Journal of Pharmaceutics</i> , 2018, 535, 473-479.	5.2	92
13	Charged nanoparticles as protein delivery systems: A feasibility study using lysozyme as model protein. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2008, 69, 31-42.	4.3	84
14	Composite liposome-PEI/nucleic acid lipopolyplexes for safe and efficient gene delivery and gene knockdown. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 158, 93-101.	5.0	78
15	Interference of serum with lipoplex cell interaction: modulation of intracellular processing. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2002, 1560, 25-36.	2.6	75
16	Photodynamic Therapy of Ovarian Carcinoma Cells with Curcumin-Loaded Biodegradable Polymeric Nanoparticles. <i>Pharmaceutics</i> , 2019, 11, 282.	4.5	72
17	Photodynamic therapy hypericin tetraether liposome conjugates and their antitumor and antiangiogenic activity. <i>Drug Delivery</i> , 2019, 26, 23-33.	5.7	70
18	Atomic Force Microscopy and Analytical Ultracentrifugation for Probing Nanomaterial Protein Interactions. <i>ACS Nano</i> , 2012, 6, 4603-4614.	14.6	69

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19	Curcumin loaded nanoparticles as efficient photoactive formulations against gram-positive and gram-negative bacteria. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 178, 460-468.	5.0	66
20	Storage stability of optimal liposome-polyethylenimine complexes (lipopolyplexes) for DNA or siRNA delivery. <i>Acta Biomaterialia</i> , 2014, 10, 2663-2673.	8.3	65
21	Low level LED photodynamic therapy using curcumin loaded tetraether liposomes. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2018, 126, 233-241.	4.3	63
22	Methotrexate-Loaded Chitosan- and Glycolchitosan-Based Nanoparticles: A Promising Strategy for the Administration of the Anticancer Drug to Brain Tumors. <i>AAPS PharmSciTech</i> , 2011, 12, 1302-1311.	3.3	61
23	Adhesion characteristics and stability assessment of lectin-modified liposomes for site-specific drug delivery. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2008, 1778, 242-249.	2.6	60
24	Antibacterial and anti-encrustation biodegradable polymer coating for urinary catheter. <i>International Journal of Pharmaceutics</i> , 2017, 531, 205-214.	5.2	58
25	Development and characterization of new nanoscaled ultrasound active lipid dispersions as contrast agents. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2011, 77, 430-437.	4.3	57
26	Liposome-polyethylenimine complexes (DPPC-PEI lipopolyplexes) for therapeutic siRNA delivery in vivo. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2017, 13, 209-218.	3.3	55
27	Preparation and characterization of chitosan and trimethyl-chitosanmodified poly-( $\mu$ -caprolactone) nanoparticles as DNA carriers. <i>AAPS PharmSciTech</i> , 2005, 6, E22-E30.	3.3	53
28	Bipolar tetraether lipids derived from thermoacidophilic archaeon <i>Sulfolobus acidocaldarius</i> for membrane stabilization of chlorin e6 based liposomes for photodynamic therapy. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2015, 95, 88-98.	4.3	53
29	Hair follicle targeting with curcumin nanocrystals: Influence of the formulation properties on the penetration efficacy. <i>Journal of Controlled Release</i> , 2021, 329, 598-613.	9.9	49
30	Enhanced efficacy and drug delivery with lipid coated mesoporous silica nanoparticles in cancer therapy. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2021, 165, 31-40.	4.3	41
31	Hypericin inclusion complexes encapsulated in liposomes for antimicrobial photodynamic therapy. <i>International Journal of Pharmaceutics</i> , 2019, 570, 118666.	5.2	36
32	Preparation and Characterization of Curcumin Loaded Chitosan Nanoparticles for Photodynamic Therapy. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1700709.	1.8	35
33	Spray dried curcumin loaded nanoparticles for antimicrobial photodynamic therapy. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2019, 142, 531-539.	4.3	35
34	The Influence of Physicochemical Parameters on the Efficacy of Non-Viral DNA Transfection Complexes: A Comparative Study. <i>Journal of Nanoscience and Nanotechnology</i> , 2006, 6, 2776-2782.	0.9	34
35	Chitosan-Coated PLGA Nanoparticles Loaded with <i>Peganum harmala</i> Alkaloids with Promising Antibacterial and Wound Healing Activities. <i>Nanomaterials</i> , 2021, 11, 2438.	4.1	32
36	Nano spray dried antibacterial coatings for dental implants. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2019, 139, 59-67.	4.3	31

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37	Development of inhalable curcumin loaded Nano-in-Microparticles for bronchoscopic photodynamic therapy. <i>European Journal of Pharmaceutical Sciences</i> , 2019, 132, 63-71.	4.0	30
38	PEGylated Chitosan Nanoparticles Encapsulating Ascorbic Acid and Oxaliplatin Exhibit Dramatic Apoptotic Effects against Breast Cancer Cells. <i>Pharmaceutics</i> , 2022, 14, 407.	4.5	30
39	Covalent immobilization of lysozyme onto woven and knitted crimped polyethylene terephthalate grafts to minimize the adhesion of broad spectrum pathogens. <i>Materials Science and Engineering C</i> , 2016, 58, 78-87.	7.3	29
40	Lipodendriplexes: A promising nanocarrier for enhanced gene delivery with minimal cytotoxicity. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2019, 135, 72-82.	4.3	29
41	Sensitivity of Papilloma Virus-Associated Cell Lines to Photodynamic Therapy with Curcumin-Loaded Liposomes. <i>Cancers</i> , 2020, 12, 3278.	3.7	25
42	Biocompatible indocyanine green loaded PLA nanofibers for in situ antimicrobial photodynamic therapy. <i>Materials Science and Engineering C</i> , 2020, 115, 111068.	7.3	25
43	Characterization of the interactions between various hexadecylmannoside phospholipid model membranes with the lectin Concanavalin A. <i>Physical Chemistry Chemical Physics</i> , 2000, 2, 4609-4614.	2.8	24
44	Wavelength dependent photo-cytotoxicity to ovarian carcinoma cells using temoporfin loaded tetraether liposomes as efficient drug delivery system. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2020, 150, 50-65.	4.3	24
45	Hypericin Loaded Liposomes for Anti-Microbial Photodynamic Therapy of Gram-Positive Bacteria. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1700837.	1.8	23
46	Poly(d,l-lactide)/polyethylene glycol micro/nanofiber mats as paclitaxel-eluting carriers: preparation and characterization of fibers, in vitro drug release, antiangiogenic activity and tumor recurrence prevention. <i>Materials Science and Engineering C</i> , 2019, 98, 982-993.	7.3	23
47	Development of expanded polytetrafluoroethylene cardiovascular graft platform based on immobilization of poly lactic- co -glycolic acid nanoparticles using a wet chemical modification technique. <i>International Journal of Pharmaceutics</i> , 2017, 529, 238-244.	5.2	22
48	Aspherical, Nanostructured Microparticles for Targeted Gene Delivery to Alveolar Macrophages. <i>Advanced Healthcare Materials</i> , 2017, 6, 1700478.	7.6	21
49	Transfection Studies with Colloidal Systems Containing Highly Purified Bipolar Tetraether Lipids from <i>Sulfolobus acidocaldarius</i> . <i>Archaea</i> , 2017, 2017, 1-12.	2.3	21
50	Potent Cytotoxicity of Four Cameroonian Plant Extracts on Different Cancer Cell Lines. <i>Pharmaceutics</i> , 2020, 13, 357.	3.8	21
51	ADAM 8 as a novel target for doxorubicin delivery to TNBC cells using magnetic thermosensitive liposomes. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2021, 158, 390-400.	4.3	21
52	Cucumber-Derived Exosome-like Vesicles and Plant Crystals for Improved Dermal Drug Delivery. <i>Pharmaceutics</i> , 2022, 14, 476.	4.5	20
53	A chorioallantoic membrane model for the determination of anti-angiogenic effects of imatinib. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2013, 85, 711-715.	4.3	19
54	Contact-Triggered Lipofection from Multilayer Films Designed as Surfaces for in Situ Transfection Strategies in Tissue Engineering. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 8963-8977.	8.0	19

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55	Dermal Penetration Analysis of Curcumin in an ex vivo Porcine Ear Model Using Epifluorescence Microscopy and Digital Image Processing. <i>Skin Pharmacology and Physiology</i> , 2021, 34, 281-299.	2.5	19
56	Lipoparticles for Synergistic Chemo-Photodynamic Therapy to Ovarian Carcinoma Cells: In vitro and in vivo Assessments. <i>International Journal of Nanomedicine</i> , 2021, Volume 16, 951-976.	6.7	19
57	Lipodendriplexes mediated enhanced gene delivery: a cellular to pre-clinical investigation. <i>Scientific Reports</i> , 2020, 10, 21446.	3.3	18
58	Photo-responsive tetraether lipids based vesicles for prophyrin mediated vascular targeting and direct phototherapy. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 159, 720-728.	5.0	18
59	Thermosensitive liposomes encapsulating hypericin: Characterization and photodynamic efficiency. <i>International Journal of Pharmaceutics</i> , 2021, 609, 121195.	5.2	18
60	Cooperation between Lateral Ligand Mobility and Accessibility for Receptor Recognition in Selectin-Induced Cell Rolling,. <i>Biochemistry</i> , 2002, 41, 4704-4712.	2.5	17
61	Real-time, label-free monitoring of cell viability based on cell adhesion measurements with an atomic force microscope. <i>Journal of Nanobiotechnology</i> , 2017, 15, 23.	9.1	17
62	Malonic acid based cationic lipids â€œ The way to highly efficient DNA-carriers. <i>Advances in Colloid and Interface Science</i> , 2017, 248, 20-34.	14.7	17
63	Resuspendable Powders of Lyophilized Chalcogen Particles with Activity against Microorganisms. <i>Antioxidants</i> , 2018, 7, 23.	5.1	17
64	Magnetic resonance activatable thermosensitive liposomes for controlled doxorubicin delivery. <i>Materials Science and Engineering C</i> , 2020, 115, 111116.	7.3	17
65	The chorioallantoic membrane as a bio-barrier model for the evaluation of nanoscale drug delivery systems for tumour therapy. <i>Advanced Drug Delivery Reviews</i> , 2021, 174, 317-336.	13.7	17
66	Ultrasound-Responsive Smart Drug Delivery System of Lipid Coated Mesoporous Silica Nanoparticles. <i>Pharmaceutics</i> , 2021, 13, 1396.	4.5	17
67	Synergistic effects of ultrasound and photodynamic therapy leading to biofilm eradication on polyurethane catheter surfaces modified with hypericin nanoformulations. <i>Materials Science and Engineering C</i> , 2019, 103, 109749.	7.3	16
68	Improvement of Pulmonary Photodynamic Therapy: Nebulisation of Curcumin-Loaded Tetraether Liposomes. <i>Pharmaceutics</i> , 2021, 13, 1243.	4.5	16
69	The in vitro stability of air-filled polybutylcyanoacrylate microparticles. <i>Biomaterials</i> , 2006, 27, 3549-59.	11.4	15
70	A New Drug Vehicle - Lipid Coated Biodegradable Nanoparticles. <i>Advances in Science and Technology</i> , 0, ,.	0.2	15
71	Correlation of structure and echogenicity of nanoscaled ultrasound contrast agents in vitro. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 117, 206-215.	5.0	15
72	Multifunctional network-structured film coating for woven and knitted polyethylene terephthalate against cardiovascular graft-associated infections. <i>International Journal of Pharmaceutics</i> , 2015, 485, 270-276.	5.2	15

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73	Structures of malonic acid diamide/phospholipid composites and their lipoplexes. <i>Soft Matter</i> , 2016, 12, 5854-5866.	2.7	15
74	The Use of Artificial Gel Forming Bolalipids as Novel Formulations in Antimicrobial and Antifungal Therapy. <i>Pharmaceutics</i> , 2019, 11, 307.	4.5	15
75	Surface tailored zein as a novel delivery system for hypericin: Application in photodynamic therapy. <i>Materials Science and Engineering C</i> , 2021, 129, 112420.	7.3	15
76	Thermoresponsive Liposomes for Photo-Triggered Release of Hypericin Cyclodextrin Inclusion Complex for Efficient Antimicrobial Photodynamic Therapy. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 31525-31540.	8.0	15
77	Investigation of Binary Lipid Mixtures of a Three-Chain Cationic Lipid with Phospholipids Suitable for Gene Delivery. <i>Bioconjugate Chemistry</i> , 2015, 26, 2461-2473.	3.6	14
78	Nano spray drying: A novel technique to prepare well-defined surface coatings for medical implants. <i>Journal of Drug Delivery Science and Technology</i> , 2018, 48, 145-151.	3.0	14
79	Stabilized tetraether lipids based particles guided porphyrins photodynamic therapy. <i>Drug Delivery</i> , 2018, 25, 1526-1536.	5.7	14
80	Selective anti-ErbB3 aptamer modified sorafenib microparticles: In vitro and in vivo toxicity assessment. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2019, 145, 42-53.	4.3	14
81	Downregulation of MDR 1 gene contributes to tyrosine kinase inhibitor induce apoptosis and reduction in tumor metastasis: A gravity to space investigation. <i>International Journal of Pharmaceutics</i> , 2020, 591, 119993.	5.2	14
82	Parietin Cyclodextrin-Inclusion Complex as an Effective Formulation for Bacterial Photoinactivation. <i>Pharmaceutics</i> , 2022, 14, 357.	4.5	14
83	In situ intravenous photodynamic therapy for the systemic eradication of blood stream infections. <i>Photochemical and Photobiological Sciences</i> , 2019, 18, 304-308.	2.9	13
84	Photodynamic and antiangiogenic activities of parietin liposomes in triple negative breast cancer. <i>Materials Science and Engineering C</i> , 2022, 134, 112543.	7.3	13
85	The application of STEP-technology <sup>®</sup> for particle and protein dispersion detection studies in biopharmaceutical research. <i>International Journal of Pharmaceutics</i> , 2018, 543, 257-268.	5.2	12
86	Establishment of a Synthetic <i>In Vitro</i> Lung Surfactant Model for Particle Interaction Studies on a Langmuir Film Balance. <i>Langmuir</i> , 2020, 36, 4808-4819.	3.5	12
87	A novel method for designing nanostructured polymer surfaces for reduced bacteria adhesion. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2011, 208, 1279-1283.	1.8	11
88	Overcoming the polycation dilemma – Explorative studies to characterise the efficiency and biocompatibility of newly designed lipofection reagents. <i>International Journal of Pharmaceutics</i> , 2018, 541, 81-92.	5.2	11
89	Multilayer Bacteriostatic Coating for Surface Modified Titanium Implants. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1700844.	1.8	11
90	Photodynamic inactivation of circulating tumor cells: An innovative approach against metastatic cancer. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2020, 157, 38-46.	4.3	11

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91	Indocyanine Green Loaded PLGA Film Coated Coronary Stents for Photo-Triggered in situ Biofilm Eradication. <i>Colloids and Interface Science Communications</i> , 2018, 27, 35-39.	4.1	10
92	Elasticity and phase behaviour of biomimetic membrane systems containing tetraether archaeal lipids. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 601, 124974.	4.7	9
93	Fast therapeutic DNA internalization – A high potential transfection system based on a peptide mimicking cationic lipid. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2017, 118, 38-47.	4.3	8
94	Immobilization and characterization of PLGA nanoparticles on polyethylene terephthalate cardiovascular grafts for local drug therapy of associated graft complications. <i>Journal of Drug Delivery Science and Technology</i> , 2018, 47, 144-150.	3.0	8
95	Glycosylated Artificial Virus-Like Hybrid Vectors for Advanced Gene Delivery. <i>Polymers</i> , 2019, 11, 243.	4.5	8
96	A Novel Microparticulate Formulation with Allicin In Situ Synthesis. <i>Journal of Pharmaceutics &amp; Drug Delivery Research</i> , 2016, 05, .	0.0	8
97	A functional immobilization of semiconductor nanoparticles (quantum dots) on nanoporous aluminium oxide. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010, 207, 872-877.	1.8	7
98	Nanostructured medical device coatings based on self-assembled poly(lactic-co-glycolic acid) nanoparticles. <i>Materials Science and Engineering C</i> , 2013, 33, 3018-3024.	7.3	7
99	Nucleic acid carrier composed of a branched fatty acid lysine conjugate – Interaction studies with blood components. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 184, 110547.	5.0	7
100	Comparison of Tanaka lipid mixture with natural surfactant Alveofact to study nanoparticle interactions on Langmuir film balance. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 188, 110750.	5.0	7
101	Targeted ErbB3 cancer therapy: A synergistic approach to effectively combat cancer. <i>International Journal of Pharmaceutics</i> , 2020, 575, 118961.	5.2	7
102	<i>In Ovo</i> Testing Method for Inhalants on a Chorio-Allantoic Membrane. <i>ACS Applied Bio Materials</i> , 2021, 4, 7764-7768.	4.6	7
103	Thrombin-Inhibiting Anticoagulant Liposomes: Development and Characterization. <i>ChemMedChem</i> , 2016, 11, 340-349.	3.2	6
104	Selective interactions of concanavalin A-modified tetraether lipid liposomes. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011, 8, 1985-1989.	0.8	5
105	Nanoparticles and Liposomes for the Surface Modification of Implants: A Comparative Study of Spraying and Dipping Techniques. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1700847.	1.8	5
106	Development and Characterization of Ultrasound Activated Lipopolyplexes for Enhanced Transfection by Low Frequency Ultrasound in In Vitro Tumor Model. <i>Macromolecular Bioscience</i> , 2020, 20, e2000173.	4.1	5
107	The chorioallantoic membrane assay is a promising ex vivo model system for the study of vascular anomalies. <i>In Vivo</i> , 2013, 27, 701-5.	1.3	5
108	Lipid coated chitosan microparticles as protein carriers. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011, 8, 1978-1984.	0.8	3

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109	A triple chain polycationic peptide-mimicking amphiphile â€” efficient DNA-transfer without co-lipids. Biomaterials Science, 2020, 8, 232-249.	5.4	3
110	Photo-Enhanced Delivery of Genetic Material Using Curcumin Loaded Composite Nanocarriers. , 2017, 2, .		3
111	Efficient Transfection of Large Plasmids Encoding HIV-1 into Human Cellsâ€”A High Potential Transfection System Based on a Peptide Mimicking Cationic Lipid. Pharmaceutics, 2020, 12, 805.	4.5	2
112	Investigating 3R In Vivo Approaches for Bioâ€”Distribution and Efficacy Evaluation of Nucleic Acid Nanocarriers: Studies on Peptideâ€”Mimicking Ionizable Lipid. Small, 2022, , 2107768.	10.0	1
113	Co-delivery of carbonic anhydrase IX inhibitor and doxorubicin as a promising approach to address hypoxia-induced chemoresistance. Drug Delivery, 2022, 29, 2072-2085.	5.7	1