Jens Schaefer

List of Publications by Year
in descending order

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Version: 2024-02-01

78 papers	2,793 citations	201674 27 h-index	189892 50 g-index
78 all docs	78 docs citations	78 times ranked	3507 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. Journal of Controlled Release, 2006, 112, 257-270.	9.9	265
2	Gene delivery using chitosan, trimethyl chitosan or polyethylenglycol-graft-trimethyl chitosan block copolymers: Establishment of structureâ€“activity relationships in vitro. Journal of Controlled Release, 2008, 125, 145-154.	9.9	229
3	Liposomeâ€“polyethylenimine complexes for enhanced DNA and siRNA delivery. Biomaterials, 2010, 31, 6892-6900.	11.4	183
4	Utilising atomic force microscopy for the characterisation of nanoscale drug delivery systems. European Journal of Pharmaceutics and Biopharmaceutics, 2010, 74, 2-13.	4.3	152
5	Phase Behavior of Cationic Amphiphiles and Their Mixtures with Helper Lipid Influences Lipoplex Shape, DNA Translocation, and Transfection Efficiency. Biophysical Journal, 2002, 83, 2096-2108.	0.5	119
6	Lipid coated chitosan-DNA nanoparticles for enhanced gene delivery. International Journal of Pharmaceutics, 2018, 535, 473-479.	5.2	92
7	Composite liposome-PEI/nucleic acid lipopolyplexes for safe and efficient gene delivery and gene knockdown. Colloids and Surfaces B: Biointerfaces, 2017, 158, 93-101.	5.0	78
8	Photodynamic Therapy of Ovarian Carcinoma Cells with Curcumin-Loaded Biodegradable Polymeric Nanoparticles. Pharmaceutics, 2019, 11, 282.	4.5	72
9	Photodynamic therapy â€“ hypericin tetraether liposome conjugates and their antitumor and antiangiogenic activity. Drug Delivery, 2019, 26, 23-33.	5.7	70
10	Atomic Force Microscopy and Analytical Ultracentrifugation for Probing Nanomaterial Protein Interactions. ACS Nano, 2012, 6, 4603-4614.	14.6	69
11	Curcumin loaded nanoparticles as efficient photoactive formulations against gram-positive and gram-negative bacteria. Colloids and Surfaces B: Biointerfaces, 2019, 178, 460-468.	5.0	66
12	Storage stability of optimal liposomeâ€“polyethylenimine complexes (lipopolyplexes) for DNA or siRNA delivery. Acta Biomaterialia, 2014, 10, 2663-2673.	8.3	65
13	Low level LED photodynamic therapy using curcumin loaded tetraether liposomes. European Journal of Pharmaceutics and Biopharmaceutics, 2018, 126, 233-241.	4.3	63
14	Antibacterial and anti-encrustation biodegradable polymer coating for urinary catheter. International Journal of Pharmaceutics, 2017, 531, 205-214.	5.2	58
15	Liposome-polyethylenimine complexes (DPPC-PEI lipopolyplexes) for therapeutic siRNA delivery in vivo. Nanomedicine: Nanotechnology, Biology, and Medicine, 2017, 13, 209-218.	3.3	55
16	Preparation and characterization of chitosan and trimethyl-chitosanmodified poly-(Îµ-caprolactone) nanoparticles as DNA carriers. AAPS PharmSciTech, 2005, 6, E22-E30.	3.3	53
17	Bipolar tetraether lipids derived from thermoacidophilic archaeon Sulfolobus acidocaldarius for membrane stabilization of chlorin e6 based liposomes for photodynamic therapy. European Journal of Pharmaceutics and Biopharmaceutics, 2015, 95, 88-98.	4.3	53
18	Enhanced efficacy and drug delivery with lipid coated mesoporous silica nanoparticles in cancer therapy. European Journal of Pharmaceutics and Biopharmaceutics, 2021, 165, 31-40.	4.3	41

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19	Hypericin inclusion complexes encapsulated in liposomes for antimicrobial photodynamic therapy. International Journal of Pharmaceutics, 2019, 570, 118666.	5.2	36
20	Preparation and Characterization of Curcumin Loaded Chitosan Nanoparticles for Photodynamic Therapy. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1700709.	1.8	35
21	Spray dried curcumin loaded nanoparticles for antimicrobial photodynamic therapy. European Journal of Pharmaceutics and Biopharmaceutics, 2019, 142, 531-539.	4.3	35
22	The Influence of Physicochemical Parameters on the Efficacy of Non-Viral DNA Transfection Complexes: A Comparative Study. Journal of Nanoscience and Nanotechnology, 2006, 6, 2776-2782.	0.9	34
23	Chitosan-Coated PLGA Nanoparticles Loaded with Peganum harmala Alkaloids with Promising Antibacterial and Wound Healing Activities. Nanomaterials, 2021, 11, 2438.	4.1	32
24	Nano spray dried antibacterial coatings for dental implants. European Journal of Pharmaceutics and Biopharmaceutics, 2019, 139, 59-67.	4.3	31
25	Development of inhalable curcumin loaded Nano-in-Microparticles for bronchoscopic photodynamic therapy. European Journal of Pharmaceutical Sciences, 2019, 132, 63-71.	4.0	30
26	PEGylated Chitosan Nanoparticles Encapsulating Ascorbic Acid and Oxaliplatin Exhibit Dramatic Apoptotic Effects against Breast Cancer Cells. Pharmaceutics, 2022, 14, 407.	4.5	30
27	Covalent immobilization of lysozyme onto woven and knitted crimped polyethylene terephthalate grafts to minimize the adhesion of broad spectrum pathogens. Materials Science and Engineering C, 2016, 58, 78-87.	7.3	29
28	Lipodendriplexes: A promising nanocarrier for enhanced gene delivery with minimal cytotoxicity. European Journal of Pharmaceutics and Biopharmaceutics, 2019, 135, 72-82.	4.3	29
29	Sensitivity of Papilloma Virus-Associated Cell Lines to Photodynamic Therapy with Curcumin-Loaded Liposomes. Cancers, 2020, 12, 3278.	3.7	25
30	Biocompatible indocyanine green loaded PLA nanofibers for in situ antimicrobial photodynamic therapy. Materials Science and Engineering C, 2020, 115, 111068.	7.3	25
31	Characterization of the interactions between various hexadecylmannosideâ€“phospholipid model membranes with the lectin Concanavalin A. Physical Chemistry Chemical Physics, 2000, 2, 4609-4614.	2.8	24
32	Wavelength dependent photo-cytotoxicity to ovarian carcinoma cells using temoporfin loaded tetraether liposomes as efficient drug delivery system. European Journal of Pharmaceutics and Biopharmaceutics, 2020, 150, 50-65.	4.3	24
33	Hypericin Loaded Liposomes for Antiâ€Microbial Photodynamic Therapy of Gramâ€Positive Bacteria. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1700837.	1.8	23
34	Development of expanded polytetrafluoroethylene cardiovascular graft platform based on immobilization of poly lactic- co -glycolic acid nanoparticles using a wet chemical modification technique. International Journal of Pharmaceutics, 2017, 529, 238-244.	5.2	22
35	Hydrophilic Ionic Liquids as Ingredients of Gel-Based Dermal Formulations. AAPS PharmSciTech, 2016, 17, 923-931.	3.3	21
36	Transfection Studies with Colloidal Systems Containing Highly Purified Bipolar Tetraether Lipids fromSulfolobus acidocaldarius. Archaea, 2017, 2017, 1-12.	2.3	21

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37	Potent Cytotoxicity of Four Cameroonian Plant Extracts on Different Cancer Cell Lines. Pharmaceuticals, 2020, 13, 357.	3.8	21
38	ADAM 8 as a novel target for doxorubicin delivery to TNBC cells using magnetic thermosensitive liposomes. European Journal of Pharmaceutics and Biopharmaceutics, 2021, 158, 390-400.	4.3	21
39	A chorioallantoic membrane model for the determination of anti-angiogenic effects of imatinib. European Journal of Pharmaceutics and Biopharmaceutics, 2013, 85, 711-715.	4.3	19
40	Lipoparticles for Synergistic Chemo-Photodynamic Therapy to Ovarian Carcinoma Cells: In vitro and in vivo Assessments. International Journal of Nanomedicine, 2021, Volume 16, 951-976.	6.7	19
41	Lipodendriplexes mediated enhanced gene delivery: a cellular to pre-clinical investigation. Scientific Reports, 2020, 10, 21446.	3.3	18
42	Photo-responsive tetraether lipids based vesicles for prophyrin mediated vascular targeting and direct phototherapy. Colloids and Surfaces B: Biointerfaces, 2017, 159, 720-728.	5.0	18
43	Thermosensitive liposomes encapsulating hypericin: Characterization and photodynamic efficiency. International Journal of Pharmaceutics, 2021, 609, 121195.	5.2	18
44	Resuspendable Powders of Lyophilized Chalcogen Particles with Activity against Microorganisms. Antioxidants, 2018, 7, 23.	5.1	17
45	The chorioallantoic membrane as a bio-barrier model for the evaluation of nanoscale drug delivery systems for tumour therapy. Advanced Drug Delivery Reviews, 2021, 174, 317-336.	13.7	17
46	Ultrasound-Responsive Smart Drug Delivery System of Lipid Coated Mesoporous Silica Nanoparticles. Pharmaceutics, 2021, 13, 1396.	4.5	17
47	Improvement of Pulmonary Photodynamic Therapy: Nebulisation of Curcumin-Loaded Tetraether Liposomes. Pharmaceutics, 2021, 13, 1243.	4.5	16
48	A New Drug Vehicle - Lipid Coated Biodegradable Nanoparticles. Advances in Science and Technology, 0, , .	0.2	15
49	Correlation of structure and echogenicity of nanoscaled ultrasound contrast agents in vitro. Colloids and Surfaces B: Biointerfaces, 2014, 117, 206-215.	5.0	15
50	The Use of Artificial Gel Forming Bolalipids as Novel Formulations in Antimicrobial and Antifungal Therapy. Pharmaceutics, 2019, 11, 307.	4.5	15
51	Surface tailored zein as a novel delivery system for hypericin: Application in photodynamic therapy. Materials Science and Engineering C, 2021, 129, 112420.	7.3	15
52	Thermoresponsive Liposomes for Photo-Triggered Release of Hypericin Cyclodextrin Inclusion Complex for Efficient Antimicrobial Photodynamic Therapy. ACS Applied Materials & Interfaces, 2022, 14, 31525-31540.	8.0	15
53	Investigation of Binary Lipid Mixtures of a Three-Chain Cationic Lipid with Phospholipids Suitable for Gene Delivery. Bioconjugate Chemistry, 2015, 26, 2461-2473.	3.6	14
54	Nano spray drying: A novel technique to prepare well-defined surface coatings for medical implants. Journal of Drug Delivery Science and Technology, 2018, 48, 145-151.	3.0	14

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55	Stabilized tetraether lipids based particles guided prophyrins photodynamic therapy. Drug Delivery, 2018, 25, 1526-1536.	5.7	14
56	Selective anti-ErbB3 aptamer modified sorafenib microparticles: In vitro and in vivo toxicity assessment. European Journal of Pharmaceutics and Biopharmaceutics, 2019, 145, 42-53.	4.3	14
57	Downregulation of MDR 1 gene contributes to tyrosine kinase inhibitor induce apoptosis and reduction in tumor metastasis: A gravity to space investigation. International Journal of Pharmaceutics, 2020, 591, 119993.	5.2	14
58	Parietin Cyclodextrin-Inclusion Complex as an Effective Formulation for Bacterial Photoinactivation. Pharmaceutics, 2022, 14, 357.	4.5	14
59	In situ intravenous photodynamic therapy for the systemic eradication of blood stream infections. Photochemical and Photobiological Sciences, 2019, 18, 304-308.	2.9	13
60	Photodynamic and antiangiogenic activities of parietin liposomes in triple negative breast cancer. Materials Science and Engineering C, 2022, 134, 112543.	7.3	13
61	Overcoming the polycation dilemma â€“ Explorative studies to characterise the efficiency and biocompatibility of newly designed lipofection reagents. International Journal of Pharmaceutics, 2018, 541, 81-92.	5.2	11
62	Multilayer Bacteriostatic Coating for Surface Modified Titanium Implants. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1700844.	1.8	11
63	Photodynamic inactivation of circulating tumor cells: An innovative approach against metastatic cancer. European Journal of Pharmaceutics and Biopharmaceutics, 2020, 157, 38-46.	4.3	11
64	Indocyanine Green Loaded PLGA Film Coated Coronary Stents for Photo-Triggered in situ Biofilm Eradication. Colloids and Interface Science Communications, 2018, 27, 35-39.	4.1	10
65	Degradation and protection of DNAzymes on human skin. European Journal of Pharmaceutics and Biopharmaceutics, 2016, 107, 80-87.	4.3	8
66	Immobilization and characterization of PLGA nanoparticles on polyethylene terephthalate cardiovascular grafts for local drug therapy of associated graft complications. Journal of Drug Delivery Science and Technology, 2018, 47, 144-150.	3.0	8
67	Glycosylated Artificial Virus-Like Hybrid Vectors for Advanced Gene Delivery. Polymers, 2019, 11, 243.	4.5	8
68	Nanostructured medical device coatings based on self-assembled poly(lactic-co-glycolic acid) nanoparticles. Materials Science and Engineering C, 2013, 33, 3018-3024.	7.3	7
69	Comparison of Tanaka lipid mixture with natural surfactant Alveofact to study nanoparticle interactions on Langmuir film balance. Colloids and Surfaces B: Biointerfaces, 2020, 188, 110750.	5.0	7
70	Targeted ErbB3 cancer therapy: A synergistic approach to effectively combat cancer. International Journal of Pharmaceutics, 2020, 575, 118961.	5.2	7
71	In Ovo Testing Method for Inhalants on a Chorio-Allantoic Membrane. ACS Applied Bio Materials, 2021, 4, 7764-7768.	4.6	7
72	Nanoparticles and Liposomes for the Surface Modification of Implants: A Comparative Study of Spraying and Dipping Techniques. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1700847.	1.8	5

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73	Development and Characterization of Ultrasound Activated Lipopolyplexes for Enhanced Transfection by Low Frequency Ultrasound in In Vitro Tumor Model. Macromolecular Bioscience, 2020, 20, e2000173.	4.1	5
74	The chorioallantoic membrane assay is a promising ex vivo model system for the study of vascular anomalies. In Vivo, 2013, 27, 701-5.	1.3	5
75	Lipid coated chitosan microparticles as protein carriers. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 1978-1984.	0.8	3
76	A triple chain polycationic peptide-mimicking amphiphile â€“ efficient DNA-transfer without co-lipids. Biomaterials Science, 2020, 8, 232-249.	5.4	3
77	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
78	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