Vinod Labhasetwar

List of Publications by Year in Descending Order

145 papers	17,988 citations	57 h-index	134 g-index
158 ext. papers	19,214 ext. citations	6.9 avg, IF	6.89 L-index

#	Paper	IF	Citations
145	Arginine-Modified Polymers Facilitate Poly (Lactide-Co-Glycolide)-Based Nanoparticle Gene Delivery to Primary Human Astrocytes. *International Journal of Nanomedicine*, **2020**, 15, 3639-3647	7.3	5
144	Synergistic combination treatment to break cross talk between cancer cells and bone cells to inhibit progression of bone metastasis. *Biomaterials*, **2020**, 227, 119558	15.6	12
143	Nanoparticles with antioxidant enzymes protect injured spinal cord from neuronal cell apoptosis by attenuating mitochondrial dysfunction. *Journal of Controlled Release*, **2020**, 317, 300-311	11.7	31
142	Evaluating accessibility of intravenously administered nanoparticles at the lesion site in rat and pig contusion models of spinal cord injury. *Journal of Controlled Release*, **2019**, 302, 160-168	11.7	15
141	Effectiveness of Small Interfering RNA Delivery via Arginine-Rich Polyethylenimine-Based Polyplex in Metastatic and Doxorubicin-Resistant Breast Cancer Cells. *Journal of Pharmacology and Experimental Therapeutics*, **2019**, 370, 902-910	4.7	10
140	Electrical stimulation for neuroregeneration in urology: a new therapeutic paradigm. *Current Opinion in Urology*, **2019**, 29, 458-465	2.8	4
139	Reaching for the Stars in the Brain: Polymer-Mediated Gene Delivery to Human Astrocytes. *Molecular Therapy - Nucleic Acids*, **2018**, 12, 645-657	10.7	7
138	Nanogel-mediated delivery of a cocktail of epigenetic drugs plus doxorubicin overcomes drug resistance in breast cancer cells. *Drug Delivery and Translational Research*, **2018**, 8, 1289-1299	6.2	7
137	Destination Brain: the Past, Present, and Future of Therapeutic Gene Delivery. *Journal of NeuroImmune Pharmacology*, **2017**, 12, 51-83	6.9	36
136	Pro-NP protect against TiO2 nanoparticle-induced phototoxicity in zebrafish model: exploring potential application for skin care. *Drug Delivery and Translational Research*, **2017**, 7, 372-382	6.2	5
135	Delivery of antioxidant enzymes for prevention of ultraviolet irradiation-induced epidermal damage. *Journal of Dermatological Science*, **2017**, 88, 373-375	4.3	4
134	Tissue plasminogen activator followed by antioxidant-loaded nanoparticle delivery promotes activation/mobilization of progenitor cells in infarcted rat brain. *Biomaterials*, **2016**, 81, 169-180	15.6	50
133	Inhibition of bone loss with surface-modulated, drug-loaded nanoparticles in an intraosseous model of prostate cancer. *Journal of Controlled Release*, **2016**, 232, 83-92	11.7	32
132	Membrane Lipids and Drug Transport **2016**, 271-290		
131	Codelivery of DNA and siRNA via arginine-rich PEI-based polyplexes. *Molecular Pharmaceutics*, **2015**, 12, 621-9	5.6	28
130	Advancements in the delivery of epigenetic drugs. *Expert Opinion on Drug Delivery*, **2015**, 12, 1501-12	8	17
129	Anatomical Targeting Improves Delivery of Unconjugated Nanoparticles to the Testicle. *Journal of Urology*, **2015**, 194, 1155-61	2.5	4

128	Sustained Epigenetic Drug Delivery Depletes Cholesterol-Sphingomyelin Rafts from Resistant Breast Cancer Cells, Influencing Biophysical Characteristics of Membrane Lipids. *Langmuir*, **2015**, 31, 11564-73	4	15
127	Drug delivery, cell-based therapies, and tissue engineering approaches for spinal cord injury. *Journal of Controlled Release*, **2015**, 219, 141-154	11.7	114
126	Physical and Biophysical Characteristics of Nanoparticles: Potential Impact on Targeted Drug Delivery. *Advances in Delivery Science and Technology*, **2015**, 649-666		1
125	A Method for Quantification of Penetration of Nanoparticles through Skin Layers Using Near-Infrared Optical Imaging. *Cosmetics*, **2015**, 2, 225-235	2.7	5
124	Blast-Associated Shock Waves Result in Increased Brain Vascular Leakage and Elevated ROS Levels in a Rat Model of Traumatic Brain Injury. *PLoS ONE*, **2015**, 10, e0127971	3.7	41
123	Arginine-rich polyplexes for gene delivery to neuronal cells. *Biomaterials*, **2015**, 60, 151-60	15.6	45
122	Superoxide dismutase-loaded biodegradable nanoparticles targeted with a follicle-stimulating hormone peptide protect Sertoli cells from oxidative stress. *Fertility and Sterility*, **2014**, 101, 560-7	4.8	11
121	Biomechanics and thermodynamics of nanoparticle interactions with plasma and endosomal membrane lipids in cellular uptake and endosomal escape. *Langmuir*, **2014**, 30, 7522-32	4	34
120	Highly cited research articles in Journal of Controlled Release: Commentaries and perspectives by authors. *Journal of Controlled Release*, **2014**, 190, 29-74	11.7	47
119	Heterogeneity in nanoparticles influences biodistribution and targeting. *Nanomedicine*, **2014**, 9, 267-78	5.6	21
118	Nanoparticles: cellular uptake and cytotoxicity. *Advances in Experimental Medicine and Biology*, **2014** , 811, 73-91	3.6	86
117	Applications of nanoparticles in the detection and treatment of kidney diseases. *Advances in Chronic Kidney Disease*, **2013**, 20, 454-65	4.7	36
116	Biophysics of cell membrane lipids in cancer drug resistance: Implications for drug transport and drug delivery with nanoparticles. *Advanced Drug Delivery Reviews*, **2013**, 65, 1686-98	18.5	148
115	Efficacy of decitabine-loaded nanogels in overcoming cancer drug resistance is mediated via sustained DNA methyltransferase 1 (DNMT1) depletion. *Cancer Letters*, **2013**, 331, 122-9	9.9	30
114	Selective biophysical interactions of surface modified nanoparticles with cancer cell lipids improve tumor targeting and gene therapy. *Cancer Letters*, **2013**, 334, 228-36	9.9	25
113	Drug Resistant Breast Cancer Cell Line Displays Cancer Stem Cell Phenotype and Responds Sensitively to Epigenetic Drug SAHA. *Drug Delivery and Translational Research*, **2013**, 3, 183-94	6.2	17
112	Highly synergistic effect of sequential treatment with epigenetic and anticancer drugs to overcome drug resistance in breast cancer cells is mediated via activation of p21 gene expression leading to G2/M cycle arrest. *Molecular Pharmaceutics*, **2013**, 10, 337-52	5.6	57
111	Nanoparticle-mediated catalase delivery protects human neurons from oxidative stress. *Cell Death and Disease*, **2013**, 4, e903	9.8	90

110	Optical imaging to map blood-brain barrier leakage. *Scientific Reports*, **2013**, 3, 3117	4.9	32
109	Inhibition of tumor angiogenesis and growth by nanoparticle-mediated p53 gene therapy in mice. *Cancer Gene Therapy*, **2012**, 19, 530-7	5.4	34
108	Biodegradable nanoparticles for drug and gene delivery to cells and tissue. *Advanced Drug Delivery Reviews*, **2012**, 64, 61-71	18.5	162
107	Epigenetic modulation of the biophysical properties of drug-resistant cell lipids to restore drug transport and endocytic functions. *Molecular Pharmaceutics*, **2012**, 9, 2730-42	5.6	45
106	Oh the irony: Iron as a cancer cause or cure?. *Biomaterials*, **2011**, 32, 9155-8	15.6	48
105	THE EFFECT OF RESIDUAL POLY(VINYL ALCOHOL) ON BIOPHYSICAL INTERACTION OF NANOPARTICLES WITH ENDOTHELIAL CELL MODEL MEMBRANE. *International Journal of Nanoscience*, **2011**, 10, 539-545	0.6	2
104	Nanoparticle-mediated p53 gene therapy for tumor inhibition. *Drug Delivery and Translational Research*, **2011**, 1, 43-52	6.2	23
103	Editorial. *Drug Delivery and Translational Research*, **2011**, 1, 1	6.2	1
102	Drug delivery to the testis: current status and potential pathways for the development of novel therapeutics. *Drug Delivery and Translational Research*, **2011**, 1, 351-60	6.2	4
101	Neurodegenerative diseases: challenges. *Drug Delivery and Translational Research*, **2011**, 1, 349-50	6.2	
100	Advances in stroke therapy. *Drug Delivery and Translational Research*, **2011**, 1, 409-19	6.2	65
99	Drug resistance in cancer therapy. *Drug Delivery and Translational Research*, **2011**, 1, 407-8	6.2	
98	Efficacy of Tat-conjugated ritonavir-loaded nanoparticles in reducing HIV-1 replication in monocyte-derived macrophages and cytocompatibility with macrophages and human neurons. *AIDS Research and Human Retroviruses*, **2011**, 27, 853-62	1.6	32
97	Optical imaging and magnetic field targeting of magnetic nanoparticles in tumors. *ACS Nano*, **2010**, 4, 5217-24	16.7	117
96	Drug resistance in breast cancer cells: biophysical characterization of and doxorubicin interactions with membrane lipids. *Molecular Pharmaceutics*, **2010**, 7, 2334-48	5.6	87
95	Tumor ablation and nanotechnology. *Molecular Pharmaceutics*, **2010**, 7, 1880-98	5.6	95
94	PEG-functionalized magnetic nanoparticles for drug delivery and magnetic resonance imaging applications. *Pharmaceutical Research*, **2010**, 27, 2283-95	4.5	140
93	Targeting anti-HIV drugs to the CNS. *Expert Opinion on Drug Delivery*, **2009**, 6, 771-84	8	72

92	Magnetic resonance imaging of multifunctional pluronic stabilized iron-oxide nanoparticles in tumor-bearing mice. *Biomaterials*, **2009**, 30, 6748-56	15.6	120
91	Biophysical interactions with model lipid membranes: applications in drug discovery and drug delivery. *Molecular Pharmaceutics*, **2009**, 6, 1264-76	5.6	347
90	Relevance of biophysical interactions of nanoparticles with a model membrane in predicting cellular uptake: study with TAT peptide-conjugated nanoparticles. *Molecular Pharmaceutics*, **2009**, 6, 1311-20	5.6	35
89	Effect of molecular structure of cationic surfactants on biophysical interactions of surfactant-modified nanoparticles with a model membrane and cellular uptake. *Langmuir*, **2009**, 25, 2369-77	4	103
88	Nanotechnology in urology. *Urologic Clinics of North America*, **2009**, 36, 179-88, viii	2.9	5
87	Nanoparticle-mediated delivery of superoxide dismutase to the brain: an effective strategy to reduce ischemia-reperfusion injury. *FASEB Journal*, **2009**, 23, 1384-95	0.9	197
86	Biophysical characterization of nanoparticle-endothelial model cell membrane interactions. *Molecular Pharmaceutics*, **2008**, 5, 418-29	5.6	76
85	Biodistribution, clearance, and biocompatibility of iron oxide magnetic nanoparticles in rats. *Molecular Pharmaceutics*, **2008**, 5, 316-27	5.6	542
84	Nano-Sized Carriers for Drug Delivery **2008**, 329-348		7
83	3-D tumor model for in vitro evaluation of anticancer drugs. *Molecular Pharmaceutics*, **2008**, 5, 849-62	5.6	260
82	Inhibition of apoptosis through localized delivery of rapamycin-loaded nanoparticles prevented neointimal hyperplasia and reendothelialized injured artery. *Circulation: Cardiovascular Interventions*, **2008**, 1, 209-16	6	42
81	Quantification of the force of nanoparticle-cell membrane interactions and its influence on intracellular trafficking of nanoparticles. *Biomaterials*, **2008**, 29, 4244-52	15.6	209
80	Superoxide dismutase-loaded PLGA nanoparticles protect cultured human neurons under oxidative stress. *Applied Biochemistry and Biotechnology*, **2008**, 151, 565-77	3.2	117
79	Magnetic nanoparticles with dual functional properties: drug delivery and magnetic resonance imaging. *Biomaterials*, **2008**, 29, 4012-21	15.6	383
78	TAT-conjugated nanoparticles for the CNS delivery of anti-HIV drugs. *Biomaterials*, **2008**, 29, 4429-38	15.6	253
77	Preparation of biodegradable nanoparticles and their use in transfection. *Cold Spring Harbor Protocols*, **2008**, 2008, pdb.prot4888	1.2	4
76	Biodegradable nanoparticles for cytosolic delivery of therapeutics. *Advanced Drug Delivery Reviews*, **2007**, 59, 718-28	18.5	392
75	A Milestone in Science: Discovery of the Porosome□he Universal Secretory Machinery in Cells. *Journal of Biomedical Nanotechnology*, **2007**, 3, 1-1	4	8

74	Erythropoietin induces excessive neointima formation: a study in a rat carotid artery model of vascular injury. *Journal of Cardiovascular Pharmacology and Therapeutics*, **2007**, 12, 237-47	2.6	23
73	Polymeric Nanoparticles for Sustained Down-Regulation of Annexin A2 Lead to Reduction in Proliferation and Migration of Prostate Cancer Cells. *Journal of Biomedical Nanotechnology*, **2007**, 3, 148-159	4	5
72	Nanoparticles for Gene Delivery. *Drugs and the Pharmaceutical Sciences*, **2007**, 281-290		
71	Nanoparticles for delivery of chemotherapeutic agents to tumors. *Current Opinion in Investigational Drugs*, **2007**, 8, 477-84		9
70	Polymeric nanoparticles for gene delivery. *Expert Opinion on Drug Delivery*, **2006**, 3, 325-44	8	51
69	Biodegradable PLGA/PLA Nanoparticles for Anti-Cancer Therapy **2006**, 243-250		1
68	Trans-Activating Transcriptional Activator (TAT) Peptide-Mediated Brain Drug Delivery. *Journal of Biomedical Nanotechnology*, **2006**, 2, 173-185	4	15
67	Characterization of porous PLGA/PLA microparticles as a scaffold for three dimensional growth of breast cancer cells. *Biomacromolecules*, **2005**, 6, 1132-9	6.9	159
66	Enhanced antiproliferative activity of transferrin-conjugated paclitaxel-loaded nanoparticles is mediated via sustained intracellular drug retention. *Molecular Pharmaceutics*, **2005**, 2, 373-83	5.6	271
65	Magnetic studies of iron oxide nanoparticles coated with oleic acid and Pluronic block copolymer. *Journal of Applied Physics*, **2005**, 97, 10Q905	2.5	60
64	Nanotechnology for drug and gene therapy: the importance of understanding molecular mechanisms of delivery. *Current Opinion in Biotechnology*, **2005**, 16, 674-80	11.4	112
63	Iron oxide nanoparticles for sustained delivery of anticancer agents. *Molecular Pharmaceutics*, **2005**, 2, 194-205	5.6	730
62	What is next for Nanotechnology?. *Journal of Biomedical Nanotechnology*, **2005**, 1, 373-374	4	4
61	Nanosystems in Drug Targeting: Opportunities and Challenges. *Current Nanoscience*, **2005**, 1, 47-64	1.4	296
60	Targeted drug delivery in cancer therapy. *Technology in Cancer Research and Treatment*, **2005**, 4, 363-74	2.7	214
59	Sustained Proangiogenic Activity of Vascular Endothelial Growth Factor Following Encapsulation in Nanoparticles. *Journal of Biomedical Nanotechnology*, **2005**, 1, 74-82	4	5
58	A novel approach for cancer immunotherapy: tumor cells with anchored superantigen SEA generate effective antitumor immunity. *Journal of Clinical Immunology*, **2004**, 24, 294-301	5.7	15
57	Critical determinants in PLGA/PLA nanoparticle-mediated gene expression. *Pharmaceutical Research*, **2004**, 21, 354-64	4.5	116

56	The characteristics and mechanisms of uptake of PLGA nanoparticles in rabbit conjunctival epithelial cell layers. *Pharmaceutical Research*, **2004**, 21, 641-8	4.5	187
55	Efficacy of transferrin-conjugated paclitaxel-loaded nanoparticles in a murine model of prostate cancer. *International Journal of Cancer*, **2004**, 112, 335-40	7.5	278
54	Solid-state solubility influences encapsulation and release of hydrophobic drugs from PLGA/PLA nanoparticles. *Journal of Pharmaceutical Sciences*, **2004**, 93, 1804-14	3.9	207
53	Evaluation of new rosin derivatives for pharmaceutical coating. *International Journal of Pharmaceutics*, **2004**, 270, 27-36	6.5	18
52	Nanoparticle-mediated wild-type p53 gene delivery results in sustained antiproliferative activity in breast cancer cells. *Molecular Pharmaceutics*, **2004**, 1, 211-9	5.6	86
51	Sustained cytoplasmic delivery of drugs with intracellular receptors using biodegradable nanoparticles. *Molecular Pharmaceutics*, **2004**, 1, 77-84	5.6	139
50	Targeting intracellular targets. *Current Drug Delivery*, **2004**, 1, 235-47	3.2	74
49	Dynamics of endocytosis and exocytosis of poly(D,L-lactide-co-glycolide) nanoparticles in vascular smooth muscle cells. *Pharmaceutical Research*, **2003**, 20, 212-20	4.5	380
48	Nanotech approaches to drug delivery and imaging. *Drug Discovery Today*, **2003**, 8, 1112-20	8.8	827
47	Biodegradable nanoparticles for drug and gene delivery to cells and tissue. *Advanced Drug Delivery Reviews*, **2003**, 55, 329-47	18.5	2562
46	Polymer degradation and in vitro release of a model protein from poly(D,L-lactide-co-glycolide) nano- and microparticles. *Journal of Controlled Release*, **2003**, 92, 173-87	11.7	398
45	Fluorescence and electron microscopy probes for cellular and tissue uptake of poly(D,L-lactide-co-glycolide) nanoparticles. *International Journal of Pharmaceutics*, **2003**, 262, 1-11	6.5	262
44	Clathrin and caveolin-1 expression in primary pigmented rabbit conjunctival epithelial cells: role in PLGA nanoparticle endocytosis. *Molecular Vision*, **2003**, 9, 559-68	2.3	91
43	Biodegradable Nanospheres: Therapeutic Applications **2002**, 19-31		
42	Residual polyvinyl alcohol associated with poly (D,L-lactide-co-glycolide) nanoparticles affects their physical properties and cellular uptake. *Journal of Controlled Release*, **2002**, 82, 105-14	11.7	759
41	Characterization of nanoparticle uptake by endothelial cells. *International Journal of Pharmaceutics*, **2002**, 233, 51-9	6.5	434
40	Size-dependency of nanoparticle-mediated gene transfection: studies with fractionated nanoparticles. *International Journal of Pharmaceutics*, **2002**, 244, 105-15	6.5	469
39	Efficiency of Dispatch and Infiltrator cardiac infusion catheters in arterial localization of nanoparticles in a porcine coronary model of restenosis. *Journal of Drug Targeting*, **2002**, 10, 515-23	5.4	22

38	Rapid endo-lysosomal escape of poly(DL-lactide-co-glycolide) nanoparticles: implications for drug and gene delivery. *FASEB Journal*, **2002**, 16, 1217-26	0.9	853
37	Gene transfection using biodegradable nanospheres: results in tissue culture and a rat osteotomy model. *Colloids and Surfaces B: Biointerfaces*, **1999**, 16, 281-290	6	54
36	A DNA controlled-release coating for gene transfer: transfection in skeletal and cardiac muscle. *Journal of Pharmaceutical Sciences*, **1998**, 87, 1347-50	3.9	67
35	Arterial uptake of biodegradable nanoparticles: effect of surface modifications. *Journal of Pharmaceutical Sciences*, **1998**, 87, 1229-34	3.9	142
34	Arterial uptake of biodegradable nanoparticles for intravascular local drug delivery: results with an acute dog model. *Journal of Controlled Release*, **1998**, 54, 201-11	11.7	111
33	Prevention of acute inducible atrial flutter in dogs by using an ibutilide-polymer-coated pacing electrode. *Journal of Cardiovascular Pharmacology*, **1998**, 31, 449-55	3.1	6
32	Influence of local delivery of the protein tyrosine kinase receptor inhibitor tyrphostin-47 on smooth-muscle cell proliferation in a rat carotid balloon-injury model. *American Heart Journal*, **1997** , 133, 329-34	4.9	8
31	Formulation and characterization of biodegradable nanoparticles for intravascular local drug delivery. *Journal of Controlled Release*, **1997**, 43, 197-212	11.7	287
30	Controlled release of U-86983 from double-layer biodegradable matrices: effect of additives on release mechanism and kinetics. *Journal of Controlled Release*, **1997**, 45, 177-192	11.7	33
29	Nanoparticle drug delivery system for restenosis. *Advanced Drug Delivery Reviews*, **1997**, 24, 63-85	18.5	126
28	The effect of intramural delivery of polymeric nanoparticles loaded with the antiproliferative 2-aminochromone U-86983 on neointimal hyperplasia development in balloon-injured porcine coronary arteries. *Advanced Drug Delivery Reviews*, **1997**, 24, 87-108	18.5	20
27	Gene-based therapies for restenosis. *Advanced Drug Delivery Reviews*, **1997**, 24, 109-120	18.5	12
26	The mechanism of uptake of biodegradable microparticles in Caco-2 cells is size dependent. *Pharmaceutical Research*, **1997**, 14, 1568-73	4.5	655
25	Controlled release implant dosage forms for cardiac arrhythmias: Review and perspectives. *Drug Delivery*, **1996**, 3, 137-42	7	9
24	Gastrointestinal uptake of biodegradable microparticles: effect of particle size. *Pharmaceutical Research*, **1996**, 13, 1838-45	4.5	703
23	Local intraluminal infusion of biodegradable polymeric nanoparticles. A novel approach for prolonged drug delivery after balloon angioplasty. *Circulation*, **1996**, 94, 1441-8	16.7	148
22	Polymeric drug delivery systems for treatment of cardiovascular calcification, arrhythmias and restenosis. *Journal of Controlled Release*, **1995**, 36, 137-147	11.7	7
21	Model features of a cardiac iontophoretic drug delivery implant. *Pharmaceutical Research*, **1995**, 12, 790-5	4.5	7

20	Novel delivery of antiarrhythmic agents. *Clinical Pharmacokinetics*, **1995**, 29, 1-5	6.2	5
19	Iontophoresis for modulation of cardiac drug delivery in dogs. *Proceedings of the National Academy of Sciences of the United States of America*, **1995**, 92, 2612-6	11.5	11
18	Effects of antisense c-myb oligonucleotides on vascular smooth muscle cell proliferation and response to vessel wall injury. *Circulation Research*, **1995**, 76, 505-13	15.7	93
17	A study on zeta potential and dielectric constant of liposomes. *Journal of Microencapsulation*, **1994**, 11, 663-8	3.4	5
16	Sotalol controlled-release systems for arrhythmias: in vitro characterization, in vivo drug disposition, and electrophysiologic effects. *Journal of Pharmaceutical Sciences*, **1994**, 83, 156-64	3.9	23
15	Modulated drug release using iontophoresis through heterogeneous cation-exchange membranes. 2. Influence of cation-exchanger content on membrane resistance and characteristic times. *Journal of Pharmaceutical Sciences*, **1994**, 83, 1482-94	3.9	8
14	Liposomes as a carrier for oral administration of insulin: effect of formulation factors. *Journal of Microencapsulation*, **1994**, 11, 319-25	3.4	58
13	Epicardial administration of ibutilide from polyurethane matrices: effects on defibrillation threshold and electrophysiologic parameters. *Journal of Cardiovascular Pharmacology*, **1994**, 24, 826-40	3.1	39
12	Studies on Some Crystalline Forms of Ibuprofen. *Drug Development and Industrial Pharmacy*, **1993**, 19, 631-641	3.6	21
11	The efficacy of controlled release D-sotalol-polyurethane epicardial implants for ventricular arrhythmias due to acute ischemia in dogs. *Journal of Controlled Release*, **1993**, 23, 75-85	11.7	10
10	Implants for site-specific drug delivery. *Journal of Applied Biomaterials: an Official Journal of the Society for Biomaterials*, **1991**, 2, 211-2		8
9	Biological Applications of Multifunctional Magnetic Nanowires1-22		2
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