

# Marcus Laird Forrest

## List of Publications by Year in descending order

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101  
papers

6,791  
citations

109321

35  
h-index

60623

81  
g-index

106  
all docs

106  
docs citations

106  
times ranked

11398  
citing authors

#	ARTICLE	IF	CITATIONS
1	Toxicity of nanomaterials. <i>Chemical Society Reviews</i> , 2012, 41, 2323-2343.	38.1	1,221
2	Effects of nanomaterial physicochemical properties on in vivo toxicity. <i>Advanced Drug Delivery Reviews</i> , 2009, 61, 457-466.	13.7	707
3	Nanoparticles for biomedical imaging. <i>Expert Opinion on Drug Delivery</i> , 2009, 6, 1175-1194.	5.0	369
4	A Degradable Polyethylenimine Derivative with Low Toxicity for Highly Efficient Gene Delivery. <i>Bioconjugate Chemistry</i> , 2003, 14, 934-940.	3.6	367
5	Clinical toxicities of nanocarrier systems. <i>Advanced Drug Delivery Reviews</i> , 2008, 60, 929-938.	13.7	277
6	Partial Acetylation of Polyethylenimine Enhances In Vitro Gene Delivery. <i>Pharmaceutical Research</i> , 2004, 21, 365-371.	3.5	222
7	Lymphatic drug delivery using engineered liposomes and solid lipid nanoparticles. <i>Advanced Drug Delivery Reviews</i> , 2011, 63, 901-908.	13.7	212
8	Flip-flop pharmacokinetics – delivering a reversal of disposition: challenges and opportunities during drug development. <i>Therapeutic Delivery</i> , 2011, 2, 643-672.	2.2	194
9	In vitro release of the mTOR inhibitor rapamycin from poly(ethylene glycol)-b-poly( $\mu$ -caprolactone) micelles. <i>Journal of Controlled Release</i> , 2006, 110, 370-377.	9.9	171
10	Localized doxorubicin chemotherapy with a biopolymeric nanocarrier improves survival and reduces toxicity in xenografts of human breast cancer. <i>Journal of Controlled Release</i> , 2010, 146, 212-218.	9.9	145
11	Drug delivery to the lymphatic system: importance in future cancer diagnosis and therapies. <i>Expert Opinion on Drug Delivery</i> , 2009, 6, 785-792.	5.0	142
12	Physical Non-Viral Gene Delivery Methods for Tissue Engineering. <i>Annals of Biomedical Engineering</i> , 2013, 41, 446-468.	2.5	140
13	Biodegradable PLGA based nanoparticles for sustained regional lymphatic drug delivery. <i>Journal of Pharmaceutical Sciences</i> , 2010, 99, 2018-2031.	3.3	139
14	Amphiphilic block copolymer micelles for nanoscale drug delivery. <i>Drug Development Research</i> , 2006, 67, 15-22.	2.9	137
15	On the Kinetics of Polyplex Endocytic Trafficking: Implications for Gene Delivery Vector Design. <i>Molecular Therapy</i> , 2002, 6, 57-66.	8.2	124
16	Cyclodextrin-polyethylenimine conjugates for targeted in vitro gene delivery. <i>Biotechnology and Bioengineering</i> , 2005, 89, 416-423.	3.3	120
17	Intralymphatic Chemotherapy Using a Hyaluronan-Cisplatin Conjugate. <i>Journal of Surgical Research</i> , 2008, 147, 247-252.	1.6	116
18	Paclitaxel Prodrugs with Sustained Release and High Solubility in Poly(ethylene) Tj ETQqO O O rgBT /Overlock 10 Tf 50 67 Td (glycol)-b-p Cytotoxicity. <i>Pharmaceutical Research</i> , 2008, 25, 194-206.	3.5	109

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19	Poly(aspartate-g-PEI800), a polyethylenimine analogue of low toxicity and high transfection efficiency for gene delivery. <i>Biomaterials</i> , 2007, 28, 4889-4900.	11.4	105
20	Pulmonary delivery of cisplatin-hyaluronan conjugates via endotracheal instillation for the treatment of lung cancer. <i>International Journal of Pharmaceutics</i> , 2010, 392, 156-163.	5.2	81
21	Advances in lymphatic imaging and drug delivery. <i>Advanced Drug Delivery Reviews</i> , 2011, 63, 876-885.	13.7	67
22	Lipophilic prodrugs of Hsp90 inhibitor geldanamycin for nanoencapsulation in poly(ethylene Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622	9.9	58
23	Pharmacometrics and delivery of novel nanoformulated PEG-b-poly( $\mu$ -caprolactone) micelles of rapamycin. <i>Cancer Chemotherapy and Pharmacology</i> , 2007, 61, 133-144.	2.3	54
24	Pharmacokinetics and Disposition of a Localized Lymphatic Polymeric Hyaluronan Conjugate of Cisplatin in Rodents. <i>Journal of Pharmaceutical Sciences</i> , 2010, 99, 2664-2671.	3.3	50
25	Formulation and preclinical evaluation of a toll-like receptor 7/8 agonist as an anti-tumoral immunomodulator. <i>Journal of Controlled Release</i> , 2019, 306, 165-176.	9.9	48
26	Formulation of a geldanamycin prodrug in mPEG-b-PCL micelles greatly enhances tolerability and pharmacokinetics in rats. <i>Journal of Controlled Release</i> , 2008, 129, 33-40.	9.9	47
27	Vorinostat with sustained exposure and high solubility in poly(ethylene glycol)- $\epsilon$ -poly(dl-lactide) micelle nanocarriers: Characterization and effects on pharmacokinetics in rat serum and urine. <i>Journal of Pharmaceutical Sciences</i> , 2012, 101, 3787-3798.	3.3	47
28	A novel intralymphatic nanocarrier delivery system for cisplatin therapy in breast cancer with improved tumor efficacy and lower systemic toxicity in vivo. <i>American Journal of Surgery</i> , 2009, 198, 781-786.	1.8	46
29	Prodrug Strategy for PSMA-Targeted Delivery of TGX-221 to Prostate Cancer Cells. <i>Molecular Pharmaceutics</i> , 2012, 9, 1705-1716.	4.6	45
30	A Cremophor-Free Formulation for Tanespimycin (17-AAG) Using PEO-b-PDLLA Micelles: Characterization and Pharmacokinetics in Rats. <i>Journal of Pharmaceutical Sciences</i> , 2009, 98, 1577-1586.	3.3	42
31	Cellular uptake and internalization of hyaluronan-based doxorubicin and cisplatin conjugates. <i>Journal of Drug Targeting</i> , 2014, 22, 648-657.	4.4	42
32	pH-Responsive Multi-PEGylated Dual Cationic Nanoparticles Enable Charge Modulations for Safe Gene Delivery. <i>ChemMedChem</i> , 2007, 2, 1321-1327.	3.2	41
33	Clinical developments in drug delivery nanotechnology. <i>Advanced Drug Delivery Reviews</i> , 2008, 60, 861-862.	13.7	39
34	Subcutaneous delivery of nanoconjugated doxorubicin and cisplatin for locally advanced breast cancer demonstrates improved efficacy and decreased toxicity at lower doses than standard systemic combination therapy in vivo. <i>American Journal of Surgery</i> , 2011, 202, 646-653.	1.8	37
35	Multi-arm polymeric nanocarrier as a nitric oxide delivery platform for chemotherapy of head and neck squamous cell carcinoma. <i>Biomaterials</i> , 2012, 33, 3243-3253.	11.4	37
36	Codelivery of antigen and an immune cell adhesion inhibitor is necessary for efficacy of soluble antigen arrays in experimental autoimmune encephalomyelitis. <i>Molecular Therapy - Methods and Clinical Development</i> , 2014, 1, 14008.	4.1	35

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37	Targeted nanodiamonds as phenotype-specific photoacoustic contrast agents for breast cancer. <i>Nanomedicine</i> , 2015, 10, 573-587.	3.3	34
38	Human intratumoral therapy: Linking drug properties and tumor transport of drugs in clinical trials. <i>Journal of Controlled Release</i> , 2020, 326, 203-221.	9.9	33
39	CD44-tropic polymeric nanocarrier for breast cancer targeted rapamycin chemotherapy. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2014, 10, 1221-1230.	3.3	32
40	Intratracheal Administration of Hyaluronan-Cisplatin Conjugate Nanoparticles Significantly Attenuates Lung Cancer Growth in Mice. <i>Pharmaceutical Research</i> , 2016, 33, 2517-2529.	3.5	32
41	Olaparib-induced Adaptive Response Is Disrupted by FOXM1 Targeting that Enhances Sensitivity to PARP Inhibition. <i>Molecular Cancer Research</i> , 2018, 16, 961-973.	3.4	32
42	Lysosomotropic Properties of Weakly Basic Anticancer Agents Promote Cancer Cell Selectivity In Vitro. <i>PLoS ONE</i> , 2012, 7, e49366.	2.5	32
43	Photoacoustic contrast imaging of biological tissues with nanodiamonds fabricated for high near-infrared absorbance. <i>Journal of Biomedical Optics</i> , 2013, 18, 026018.	2.6	31
44	The Role of Lysosomes in Limiting Drug Toxicity in Mice. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2010, 333, 120-128.	2.5	30
45	Single-step grafting of aminoxy-peptides to hyaluronan: A simple approach to multifunctional therapeutics for experimental autoimmune encephalomyelitis. <i>Journal of Controlled Release</i> , 2013, 168, 334-340.	9.9	30
46	Biotin-Triggered Release of Poly(ethylene glycol)-Avidin from Biotinylated Polyethylenimine Enhances In Vitro Gene Expression. <i>Bioconjugate Chemistry</i> , 2007, 18, 746-753.	3.6	28
47	Efficacy and Toxicity of Peritumoral Delivery of Nanoconjugated Cisplatin in an In Vivo Murine Model of Head and Neck Squamous Cell Carcinoma. <i>JAMA Otolaryngology - Head and Neck Surgery</i> , 2013, 139, 382.	2.2	27
48	Alternol eliminates excessive ATP production by disturbing Krebs cycle in prostate cancer. <i>Prostate</i> , 2019, 79, 628-639.	2.3	27
49	Carrier-based intralymphatic cisplatin chemotherapy for the treatment of metastatic squamous cell carcinoma of the head & neck. <i>Therapeutic Delivery</i> , 2010, 1, 237-245.	2.2	26
50	Effects of intratumoral administration of a hyaluronan-cisplatin nanoconjugate to five dogs with soft tissue sarcomas. <i>American Journal of Veterinary Research</i> , 2012, 73, 1969-1976.	0.6	26
51	Pharmacokinetic and Toxicodynamic Characterization of a Novel Doxorubicin Derivative. <i>Pharmaceutics</i> , 2017, 9, 35.	4.5	26
52	Glatiramer acetate persists at the injection site and draining lymph nodes via electrostatically-induced aggregation. <i>Journal of Controlled Release</i> , 2019, 293, 36-47.	9.9	25
53	In vivo photoacoustic imaging of chemotherapy-induced apoptosis in squamous cell carcinoma using a near-infrared caspase-9 probe. <i>Journal of Biomedical Optics</i> , 2011, 16, 116026.	2.6	24
54	Lymphatic trafficking kinetics and near-infrared imaging using star polymer architectures with controlled anionic character. <i>European Journal of Pharmaceutical Sciences</i> , 2012, 47, 287-294.	4.0	24

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55	Proteolysis and Oxidation of Therapeutic Proteins After Intradermal or Subcutaneous Administration. <i>Journal of Pharmaceutical Sciences</i> , 2020, 109, 191-205.	3.3	24
56	Nanomicellar TGX221 blocks xenograft tumor growth of prostate cancer in nude mice. <i>Prostate</i> , 2015, 75, 593-602.	2.3	22
57	Synthesis and characterization of a multiarm poly(acrylic acid) star polymer for application in sustained delivery of cisplatin and a nitric oxide prodrug. <i>Journal of Polymer Science Part A</i> , 2012, 50, 2715-2724.	2.3	19
58	Implantable hyaluronic acid-deferoxamine conjugate prevents nonunions through stimulation of neovascularization. <i>Npj Regenerative Medicine</i> , 2019, 4, 11.	5.2	19
59	Routes of Administration and Dose Optimization of Soluble Antigen Arrays in Mice with Experimental Autoimmune Encephalomyelitis. <i>Journal of Pharmaceutical Sciences</i> , 2015, 104, 714-721.	3.3	17
60	Development and Validation of an Inductively Coupled Plasma Mass Spectrometry (ICP-MS) Method for Quantitative Analysis of Platinum in Plasma, Urine, and Tissues. <i>Applied Spectroscopy</i> , 2016, 70, 1529-1536.	2.2	17
61	Adenovector-Mediated Gene Delivery to Human Umbilical Cord Mesenchymal Stromal Cells Induces Inner Ear Cell Phenotype. <i>Cellular Reprogramming</i> , 2013, 15, 43-54.	0.9	16
62	Phospholipid Composition Modulates Carbon Nanodiamond-Induced Alterations in Phospholipid Domain Formation. <i>Langmuir</i> , 2015, 31, 5093-5104.	3.5	16
63	Phase I-II clinical trial of hyaluronan-cisplatin nanoconjugate in dogs with naturally occurring malignant tumors. <i>American Journal of Veterinary Research</i> , 2016, 77, 1005-1016.	0.6	16
64	Pharmacokinetic Evaluation of a DSPE-PEG2000 Micellar Formulation of Ridaforolimus in Rat. <i>Pharmaceutics</i> , 2013, 5, 81-93.	4.5	15
65	The Botanical Drug Substance Crofelemer as a Model System for Comparative Characterization of Complex Mixture Drugs. <i>Journal of Pharmaceutical Sciences</i> , 2017, 106, 3242-3256.	3.3	14
66	Intratumoral Cancer Chemotherapy with a Carrier-Based Immunogenic Cell-Death Eliciting Platinum (IV) Agent. <i>Molecular Pharmaceutics</i> , 2020, 17, 4334-4345.	4.6	14
67	Intracellular Distribution-based Anticancer Drug Targeting: Exploiting a Lysosomal Acidification Defect Associated with Cancer Cells. <i>Molecular and Cellular Pharmacology</i> , 2010, 2, 131-136.	1.7	14
68	Nonviral Reprogramming of Human Wharton's Jelly Cells Reveals Differences Between <i>ATO1</i> Homologues. <i>Tissue Engineering - Part A</i> , 2015, 21, 1795-1809.	3.1	13
69	DOX-Vit D, a Novel Doxorubicin Delivery Approach, Inhibits Human Osteosarcoma Cell Proliferation by Inducing Apoptosis While Inhibiting Akt and mTOR Signaling Pathways. <i>Pharmaceutics</i> , 2018, 10, 144.	4.5	13
70	Effects of peritumoral nanoconjugated cisplatin on laryngeal cancer stem cells. <i>Laryngoscope</i> , 2016, 126, E184-90.	2.0	12
71	Ultrasound-assisted laser thrombolysis with endovascular laser and high-intensity focused ultrasound. <i>Medical Physics</i> , 2021, 48, 579-586.	3.0	12
72	Cancer immunotherapy from biology to nanomedicine. <i>Journal of Controlled Release</i> , 2021, 336, 410-432.	9.9	12

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73	In vivo efficacy of nano hyaluronan-conjugated cisplatin for treatment of murine melanoma. <i>Journal of Drugs in Dermatology</i> , 2014, 13, 283-7.	0.8	12
74	pH-Dependent Phase Behavior and Stability of Cationic Lipid-mRNA Nanoparticles. <i>Journal of Pharmaceutical Sciences</i> , 2022, 111, 690-698.	3.3	12
75	Mechanistically elucidating the in vitro safety and efficacy of a novel doxorubicin derivative. <i>Drug Delivery and Translational Research</i> , 2017, 7, 582-597.	5.8	11
76	Improving Viability and Transfection Efficiency with Human Umbilical Cord Wharton's Jelly Cells Through Use of a ROCK Inhibitor. <i>Cellular Reprogramming</i> , 2014, 16, 91-97.	0.9	10
77	A sensitive near-infrared fluorescent probe for caspase-mediated apoptosis: Synthesis and application in cell imaging. <i>Drug Discoveries and Therapeutics</i> , 2011, 5, 220-226.	1.5	8
78	Development of regional chemotherapies: feasibility, safety and efficacy in clinical use and preclinical studies. <i>Therapeutic Delivery</i> , 2011, 2, 1467-1484.	2.2	8
79	The feasibility of ultrasound-assisted endovascular laser thrombolysis in an acute rabbit thrombosis model. <i>Medical Physics</i> , 2021, 48, 4128-4138.	3.0	8
80	Hyaluronan-Lysine Cisplatin Drug Carrier for Treatment of Localized Cancers: Pharmacokinetics, Tolerability, and Efficacy in Rodents and Canines. <i>Journal of Pharmaceutical Sciences</i> , 2016, 105, 1891-1900.	3.3	7
81	Chemical Stability of the Botanical Drug Substance Crofelemer: A Model System for Comparative Characterization of Complex Mixture Drugs. <i>Journal of Pharmaceutical Sciences</i> , 2017, 106, 3257-3269.	3.3	6
82	Effect of Iron Oxide Nanoparticles on the Oxidation and Secondary Structure of Growth Hormone. <i>Journal of Pharmaceutical Sciences</i> , 2019, 108, 3372-3381.	3.3	6
83	Constructing a Biomaterial to Simulate Extracellular Drug Transport in Solid Tumors. <i>Macromolecular Bioscience</i> , 2020, 20, e2000251.	4.1	6
84	Glatiramer acetate enhances tumor retention and innate activation of immunostimulants. <i>International Journal of Pharmaceutics</i> , 2021, 605, 120812.	5.2	6
85	Lymphatic drug delivery: therapy, imaging and nanotechnology. <i>Advanced Drug Delivery Reviews</i> , 2011, 63, 865-866.	13.7	5
86	Combining hard and soft magnetism into a single core-shell nanoparticle to achieve both hyperthermia and image contrast. <i>Therapeutic Delivery</i> , 2015, 6, 1195-1210.	2.2	5
87	Comparative Characterization of Crofelemer Samples Using Data Mining and Machine Learning Approaches With Analytical Stability Data Sets. <i>Journal of Pharmaceutical Sciences</i> , 2017, 106, 3270-3279.	3.3	5
88	Profiling the Photochemical-Induced Degradation of Rat Growth Hormone with Extreme Ultra-pressure Chromatography-Mass Spectrometry Utilizing Meter-Long Microcapillary Columns Packed with Sub-2-µm Particles. <i>Chromatographia</i> , 2017, 80, 1299-1318.	1.3	5
89	A Semi-Physiologically Based Pharmacokinetic Model Describing the Altered Metabolism of Midazolam Due to Inflammation in Mice. <i>Pharmaceutical Research</i> , 2018, 35, 162.	3.5	5
90	The Effects of PVP(Fe(III)) Catalyst on Polymer Molecular Weight and Gene Delivery Via Biodegradable Cross-Linked Polyethylenimine. <i>Pharmaceutical Research</i> , 2012, 29, 500-510.	3.5	4

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91	In vivophotoacoustic imaging of breast cancer tumor with HER2-targeted nanodiamonds. , 2013, 8815, .		4
92	Ensuring that injectable bicarbonate-buffered lidocaine-epinephrine complies with 2015 United States Pharmacopeia (USP) compounding provisions. Journal of the American Academy of Dermatology, 2016, 75, 454-455.	1.2	4
93	Further exploration of the structure-activity relationship of imidazoquinolines; identification of potent C7-substituted imidazoquinolines. Bioorganic and Medicinal Chemistry Letters, 2020, 30, 126788.	2.2	4
94	Hyaluronic acid carrier-based photodynamic therapy for head and neck squamous cell carcinoma. Photodiagnosis and Photodynamic Therapy, 2022, 37, 102706.	2.6	3
95	Micellization and Drug Solubility Enhancement Part II. , 2008, , 307-371.		2
96	Formation of platinum (II) as a six member ring for sustained polymeric delivery. European Journal of Medicinal Chemistry, 2017, 136, 452-456.	5.5	2
97	Injectable Chemotherapy Downstaged Oral Squamous Cell Carcinoma from Nonresectable to Resectable in a Rescue Dog: Diagnosis, Treatment, and Outcome. Case Reports in Veterinary Medicine, 2018, 2018, 1-6.	0.2	2
98	Alkyne- and 1,6-elimination- succinimidyl carbonate - terminated heterobifunctional poly(ethylene) Tj ETQq0 0 0 rgBT <sub>1.5</sub> /Overlogk 10 Tf 50		
99	A Lanthanum-Tagged Chemotherapeutic Agent HA-Pt to Track the In Vivo Distribution of Hyaluronic Acid Complexes. BAOJ Pharmaceutical Sciences, 2015, 1, 1-9.	0.1	1
100	Photoacoustic imaging of chemotherapy-induced apoptosis in squamous cell carcinoma. Proceedings of SPIE, 2012, , .	0.8	0
101	Analysis of N15-rat growth hormone after incubation with rat subcutaneous tissue and immune cells using ultra-pressure chromatography-mass spectrometry. Analytical Biochemistry, 2021, 634, 114425.	2.4	0