Forrest M Kievit

List of Publications by Year
in descending order

66 papers	6,359 citations	87723 38 h-index	114278 63 g-index
66 all docs	66 docs citations	66 times ranked	9757 citing authors

#	Article	IF	Citations
1	Surface Engineering of Iron Oxide Nanoparticles for Targeted Cancer Therapy. Accounts of Chemical Research, 2011, 44, 853-862.	7.6	532
2	Cancer Nanotheranostics: Improving Imaging and Therapy by Targeted Delivery Across Biological Barriers. Advanced Materials, 2011, 23, H217-47.	11.1	432
3	Magnetite nanoparticles for medical MR imaging. Materials Today, 2011, 14, 330-338.	8.3	360
4	PEIâ€“PEGâ€“Chitosanâ€Copolymerâ€Coated Iron Oxide Nanoparticles for Safe Gene Delivery: Synthesis, Complexation, and Transfection. Advanced Functional Materials, 2009, 19, 2244-2251.	7.8	359
5	Specific Targeting of Brain Tumors with an Optical/Magnetic Resonance Imaging Nanoprobe across the Blood-Brain Barrier. Cancer Research, 2009, 69, 6200-6207.	0.4	347
6	Doxorubicin loaded iron oxide nanoparticles overcome multidrug resistance in cancer in vitro. Journal of Controlled Release, 2011, 152, 76-83.	4.8	254
7	PEG-Mediated Synthesis of Highly Dispersive Multifunctional Superparamagnetic Nanoparticles: Their Physicochemical Properties and Function In Vivo. ACS Nano, 2010, 4, 2402-2410.	7.3	250
8	Chlorotoxin Labeled Magnetic Nanovectors for Targeted Gene Delivery to Glioma. ACS Nano, 2010, 4, 4587-4594.	7.3	203
9	Chitosanâ€“alginate 3D scaffolds as a mimic of the glioma tumor microenvironment. Biomaterials, 2010, 31, 5903-5910.	5.7	183
10	Porous chitosan-hyaluronic acid scaffolds as a mimic of glioblastoma microenvironment ECM. Biomaterials, 2013, 34, 10143-10150.	5.7	182
11	Chlorotoxin bound magnetic nanovector tailored for cancer cell targeting, imaging, and siRNA delivery. Biomaterials, 2010, 31, 8032-8042.	5.7	175
12	Inhibition of Tumorâ€Cell Invasion with Chlorotoxinâ€Bound Superparamagnetic Nanoparticles. Small, 2009, 5, 256-264.	5.2	174
13	Targeting of Primary Breast Cancers and Metastases in a Transgenic Mouse Model Using Rationally Designed Multifunctional SPIONs. ACS Nano, 2012, 6, 2591-2601.	7.3	167
14	Temozolomide Nanoparticles for Targeted Glioblastoma Therapy. ACS Applied Materials & Interfaces, 2015, 7, 6674-6682.	4.0	161
15	Redox-Responsive Magnetic Nanoparticle for Targeted Convection-Enhanced Delivery of O⁶-Benzylguanine to Brain Tumors. ACS Nano, 2014, 8, 10383-10395.	7.3	157
16	Cancer Cell Invasion: Treatment and Monitoring Opportunities in Nanomedicine. Advanced Drug Delivery Reviews, 2011, 63, 582-596.	6.6	118
17	A ligand-mediated nanovector for targeted gene delivery and transfection in cancer cells. Biomaterials, 2009, 30, 649-657.	5.7	116
18	pH-Sensitive siRNA Nanovector for Targeted Gene Silencing and Cytotoxic Effect in Cancer Cells. Molecular Pharmaceutics, 2010, 7, 1930-1939.	2.3	116

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19	Nanoparticles for cancer gene therapy: Recent advances, challenges, and strategies. Pharmacological Research, 2016, 114, 56-66.	3.1	110
20	Thermoreversible Poly(ethylene glycol)-g-Chitosan Hydrogel as a Therapeutic T Lymphocyte Depot for Localized Glioblastoma Immunotherapy. Biomacromolecules, 2014, 15, 2656-2662.	2.6	106
21	Proliferation and enrichment of CD133+ glioblastoma cancer stem cells on 3D chitosan-alginate scaffolds. Biomaterials, 2014, 35, 9137-9143.	5.7	105
22	Core-Cross-Linked Nanoparticles Reduce Neuroinflammation and Improve Outcome in a Mouse Model of Traumatic Brain Injury. ACS Nano, 2017, 11, 8600-8611.	7.3	91
23	Chitosan-Alginate Scaffold Culture System for Hepatocellular Carcinoma Increases Malignancy and Drug Resistance. Pharmaceutical Research, 2010, 27, 1939-1948.	1.7	86
24	Cell transcytosing poly-arginine coated magnetic nanovector for safe and effective siRNA delivery. Biomaterials, 2011, 32, 5717-5725.	5.7	85
25	Fabrication of magnetic nanoparticles with controllable drug loading and release through a simple assembly approach. Journal of Controlled Release, 2012, 162, 233-241.	4.8	83
26	Anti-HER2/neu peptide-conjugated iron oxide nanoparticles for targeted delivery of paclitaxel to breast cancer cells. Nanoscale, 2015, 7, 18010-18014.	2.8	80
27	3D Porous Chitosanâ€“Alginate Scaffolds: A New Matrix for Studying Prostate Cancer Cellâ€“Lymphocyte Interactions In Vitro. Advanced Healthcare Materials, 2012, 1, 590-599.	3.9	76
28	Nanoparticleâ€Mediated Target Delivery of TRAIL as Gene Therapy for Glioblastoma. Advanced Healthcare Materials, 2015, 4, 2719-2726.	3.9	69
29	3D porous chitosanâ€“alginate scaffolds promote proliferation and enrichment of cancer stem-like cells. Journal of Materials Chemistry B, 2016, 4, 6326-6334.	2.9	63
30	3D Porous Chitosanâ€“Alginate Scaffolds as an In Vitro Model for Evaluating Nanoparticle-Mediated Tumor Targeting and Gene Delivery to Prostate Cancer. Biomacromolecules, 2015, 16, 3362-3372.	2.6	62
31	Aligned Chitosanâ€Polycaprolactone Polyblend Nanofibers Promote the Migration of Glioblastoma Cells. Advanced Healthcare Materials, 2013, 2, 1651-1659.	3.9	60
32	Culture on 3D Chitosanâ€Hyaluronic Acid Scaffolds Enhances Stem Cell Marker Expression and Drug Resistance in Human Glioblastoma Cancer Stem Cells. Advanced Healthcare Materials, 2016, 5, 3173-3181.	3.9	60
33	Iron-Oxide-Based Nanovector for Tumor Targeted siRNA Delivery in an Orthotopic Hepatocellular Carcinoma Xenograft Mouse Model. Small, 2016, 12, 477-487.	5.2	58
34	Nanoparticle mediated silencing of DNA repair sensitizes pediatric brain tumor cells to Î³â€irradiation. Molecular Oncology, 2015, 9, 1071-1080.	2.1	57
35	Glypican-3â€“Targeted ⁸⁹Zr PET Imaging of Hepatocellular Carcinoma. Journal of Nuclear Medicine, 2014, 55, 799-804.	2.8	56
36	Functionalization of iron oxide magnetic nanoparticles with targeting ligands: their physicochemical properties and in vivo behavior. Nanomedicine, 2010, 5, 1357-1369.	1.7	54

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37	Three-Dimensional Scaffolds to Evaluate Tumor Associated Fibroblast-Mediated Suppression of Breast Tumor Specific T Cells. Biomacromolecules, 2013, 14, 1330-1337.	2.6	54
38	Glypican-3â€“Targeting F(abâ€²)2 for ⁸⁹Zr PET of Hepatocellular Carcinoma. Journal of Nuclear Medicine, 2014, 55, 2032-2037.	2.8	53
39	Electrospinning of chitosan derivative nanofibers with structural stability in an aqueous environment. Physical Chemistry Chemical Physics, 2011, 13, 9969.	1.3	38
40	Theranostic Oxygen Reactive Polymers for Treatment of Traumatic Brain Injury. Advanced Functional Materials, 2016, 26, 4124-4133.	7.8	38
41	Glypican-3 Targeting of Liver Cancer Cells Using Multifunctional Nanoparticles. Molecular Imaging, 2011, 10, 7290.2010.00048.	0.7	37
42	Nanoparticle-mediated knockdown of DNA repair sensitizes cells to radiotherapy and extends survival in a genetic mouse model of glioblastoma. Nanomedicine: Nanotechnology, Biology, and Medicine, 2017, 13, 2131-2139.	1.7	37
43	Nanoparticle Biokinetics in Mice and Nonhuman Primates. ACS Nano, 2017, 11, 9514-9524.	7.3	35
44	Chitosan-Based Thermoreversible Hydrogel as anin VitroTumor Microenvironment for Testing Breast Cancer Therapies. Molecular Pharmaceutics, 2014, 11, 2134-2142.	2.3	34
45	Effect of cationic side-chains on intracellular delivery and cytotoxicity of pH sensitive polymerâ€“doxorubicin nanocarriers. Nanoscale, 2012, 4, 7012.	2.8	28
46	Modeling the tumor microenvironment using chitosan-alginate scaffolds to control the stem-like state of glioblastoma cells. Biomaterials Science, 2016, 4, 610-613.	2.6	28
47	Time-Resolved MRI Assessment of Convection-Enhanced Delivery by Targeted and Nontargeted Nanoparticles in a Human Glioblastoma Mouse Model. Cancer Research, 2019, 79, 4776-4786.	0.4	28
48	A Role for Nanoparticles in Treating Traumatic Brain Injury. Pharmaceutics, 2019, 11, 473.	2.0	27
49	Glypican-3 targeting of liver cancer cells using multifunctional nanoparticles. Molecular Imaging, 2011, 10, 69-77.	0.7	27
50	CCL21 and IFNγ Recruit and Activate Tumor Specific T cells in 3D Scaffold Model of Breast Cancer. Anti-Cancer Agents in Medicinal Chemistry, 2014, 14, 204-210.	0.9	26
51	Targeted Cell Uptake of a Noninternalizing Antibody Through Conjugation to Iron Oxide Nanoparticles in Primary Central Nervous System Lymphoma. World Neurosurgery, 2013, 80, 134-141.	0.7	25
52	Antioxidant thioether core-crosslinked nanoparticles prevent the bilateral spread of secondary injury to protect spatial learning and memory in a controlled cortical impact mouse model of traumatic brain injury. Biomaterials, 2021, 272, 120766.	5.7	25
53	Bionanotechnology and the Future of Glioma. , 2015, 6, 45.		24
54	Evaluating differential nanoparticle accumulation and retention kinetics in a mouse model of traumatic brain injury via Ktrans mapping with MRI. Scientific Reports, 2019, 9, 16099.	1.6	21

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55	Ultrasmall Mixed Euâ€“Gd Oxide Nanoparticles for Multimodal Fluorescence and Magnetic Resonance Imaging of Passive Accumulation and Retention in TBI. ACS Omega, 2020, 5, 16220-16227.	1.6	17
56	siRNA Nanoparticle Suppresses Drugâ€Resistant Gene and Prolongs Survival in an Orthotopic Glioblastoma Xenograft Mouse Model. Advanced Functional Materials, 2021, 31, 2007166.	7.8	16
57	In Vivo Safety Evaluation of Polyarginine Coated Magnetic Nanovectors. Molecular Pharmaceutics, 2013, 10, 4099-4106.	2.3	15
58	Cancer Therapy: Cancer Nanotheranostics: Improving Imaging and Therapy by Targeted Delivery Across Biological Barriers (Adv. Mater. 36/2011). Advanced Materials, 2011, 23, H209-H209.	11.1	13
59	Design and Evaluation of an In Vitro Mild Traumatic Brain Injury Modeling System Using 3D Printed Mini Impact Device on the 3D Cultured Human iPSC Derived Neural Progenitor Cells. Advanced Healthcare Materials, 2021, 10, e2100180.	3.9	13
60	Claudin-1-Targeted Nanoparticles for Delivery to Aging-Induced Alterations in the Bloodâ€“Brain Barrier. ACS Nano, 2021, 15, 18520-18531.	7.3	13
61	Active targeting and transport. , 2020, , 19-36.		10
62	Iron oxide nanoparticle-mediated radiation delivery for glioblastoma treatment. Materials Today, 2022, 56, 66-78.	8.3	9
63	Triggering receptor expressed on myeloid cells-1 (TREM-1) inhibition in atherosclerosis. , 2022, 238, 108182.		7
64	Theranostic Copolymers Neutralize Reactive Oxygen Species and Lipid Peroxidation Products for the Combined Treatment of Traumatic Brain Injury. Biomacromolecules, 2022, 23, 1703-1712.	2.6	5
65	The Nanotheranostic Researcherâ€™s Guide for Use of Animal Models of Traumatic Brain Injury. Journal of Nanotheranostics, 2021, 2, 224-268.	1.7	5
66	Smooth muscle cells affect differential nanoparticle accumulation in disturbed blood flow-induced murine atherosclerosis. PLoS ONE, 2021, 16, e0260606.	1.1	4