

Dmitri Simberg

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

3,179
citations

236612

25
h-index

155451

55
g-index

64
all docs

64
docs citations

64
times ranked

5012
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly aminated iron oxide nanoworms for simultaneous manufacturing and labeling of chimeric antigen receptor T cells. <i>Journal of Magnetism and Magnetic Materials</i> , 2022, 541, 168480.	1.0	3
2	PEGylated Liposomes Accumulate in the Areas Relevant to Skin Toxicities <i>via</i> Passive Extravasation across "Leaky" Endothelium. <i>ACS Nano</i> , 2022, 16, 6349-6358.	7.3	7
3	Critical issues and pitfalls in serum and plasma handling for complement analysis in nanomedicine and bionanotechnology. <i>Nano Today</i> , 2022, 44, 101479.	6.2	10
4	Pro-inflammatory concerns with lipid nanoparticles. <i>Molecular Therapy</i> , 2022, 30, 2109-2110.	3.7	16
5	Antibody-Dependent Complement Responses toward SARS-CoV-2 Receptor-Binding Domain Immobilized on "Pseudovirus-like" Nanoparticles. <i>ACS Nano</i> , 2022, , .	7.3	7
6	Indocarbocyanine nanoparticles extravasate and distribute better than liposomes in brain tumors. <i>Journal of Controlled Release</i> , 2022, 349, 413-424.	4.8	2
7	Preclinical Applications of Multi-Platform Imaging in Animal Models of Cancer. <i>Cancer Research</i> , 2021, 81, 1189-1200.	0.4	31
8	Lipid nanoparticle formulation of niclosamide (nano NCM) effectively inhibits SARS-CoV-2 replication in vitro. <i>Precision Nanomedicine</i> , 2021, 4, 724-737.	0.4	11
9	Targeted Intracellular Delivery of Trastuzumab Using Designer Phage Lambda Nanoparticles Alters Cellular Programs in Human Breast Cancer Cells. <i>ACS Nano</i> , 2021, 15, 11789-11805.	7.3	18
10	Liposomal Extravasation and Accumulation in Tumors as Studied by Fluorescence Microscopy and Imaging Depend on the Fluorescent Label. <i>ACS Nano</i> , 2021, 15, 11880-11890.	7.3	15
11	Dendrimer end-terminal motif-dependent evasion of human complement and complement activation through IgM hitchhiking. <i>Nature Communications</i> , 2021, 12, 4858.	5.8	14
12	Complement opsonization of nanoparticles: Differences between humans and preclinical species. <i>Journal of Controlled Release</i> , 2021, 338, 548-556.	4.8	20
13	Delivery of a model lipophilic membrane cargo to bone marrow via cell-derived microparticles. <i>Journal of Controlled Release</i> , 2020, 326, 324-334.	4.8	4
14	C2 IgM Natural Antibody Enhances Inflammation and Its Use in the Recombinant Single Chain Antibody-Fused Complement Inhibitor C2-Crry to Target Therapeutics to Joints Attenuates Arthritis in Mice. <i>Frontiers in Immunology</i> , 2020, 11, 575154.	2.2	4
15	Complement activation by drug carriers and particulate pharmaceuticals: Principles, challenges and opportunities. <i>Advanced Drug Delivery Reviews</i> , 2020, 157, 83-95.	6.6	39
16	Complement Inhibitors Block Complement C3 Opsonization and Improve Targeting Selectivity of Nanoparticles in Blood. <i>Bioconjugate Chemistry</i> , 2020, 31, 1844-1856.	1.8	11
17	Tuning the Engines of Nanomedicine. <i>Molecular Therapy</i> , 2020, 28, 693-694.	3.7	4
18	Complement Activation by Nanomaterials. <i>Molecular and Integrative Toxicology</i> , 2020, , 83-98.	0.5	3

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19	Establishing In Situ Closed Circuit Perfusion of Lower Abdominal Organs and Hind Limbs in Mice. <i>Journal of Visualized Experiments</i> , 2020, , .	0.2	0
20	Feraheme (Ferumoxytol) Is Recognized by Proinflammatory and Anti-inflammatory Macrophages via Scavenger Receptor Type AI/II. <i>Molecular Pharmaceutics</i> , 2019, 16, 4274-4281.	2.3	23
21	Evaluation of Targeting Efficiency of Joints with Anticollagen II Antibodies. <i>Molecular Pharmaceutics</i> , 2019, 16, 2445-2451.	2.3	8
22	Clickable Methyltetrazine-Indocarbocyanine Lipids: A Multicolor Tool Kit for Efficient Modifications of Cell Membranes. <i>Bioconjugate Chemistry</i> , 2019, 30, 2106-2114.	1.8	3
23	Complement therapeutics meets nanomedicine: overcoming human complement activation and leukocyte uptake of nanomedicines with soluble domains of CD55. <i>Journal of Controlled Release</i> , 2019, 302, 181-189.	4.8	24
24	The Interplay Between Blood Proteins, Complement, and Macrophages on Nanomedicine Performance and Responses. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2019, 370, 581-592.	1.3	47
25	Pharmacokinetic analysis reveals limitations and opportunities for nanomedicine targeting of endothelial and extravascular compartments of tumours. <i>Journal of Drug Targeting</i> , 2019, 27, 690-698.	2.1	15
26	Immunoglobulin deposition on biomolecule corona determines complement opsonization efficiency of preclinical and clinical nanoparticles. <i>Nature Nanotechnology</i> , 2019, 14, 260-268.	15.6	204
27	Lipophilic indocarbocyanine conjugates for efficient incorporation of enzymes, antibodies and small molecules into biological membranes. <i>Biomaterials</i> , 2018, 161, 57-68.	5.7	11
28	Isolation of Breast cancer CTCs with multitargeted buoyant immunomicrobubbles. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 161, 200-209.	2.5	15
29	Accelerated Blood Clearance of Antibodies by Nanosized Click Antidotes. <i>ACS Nano</i> , 2018, 12, 12523-12532.	7.3	8
30	Roadmap and strategy for overcoming infusion reactions to nanomedicines. <i>Nature Nanotechnology</i> , 2018, 13, 1100-1108.	15.6	130
31	Translational gaps in animal models of human infusion reactions to nanomedicines. <i>Nanomedicine</i> , 2018, 13, 973-975.	1.7	23
32	C1q-Mediated Complement Activation and C3 Opsonization Trigger Recognition of Stealth Poly(2-methyl-2-oxazoline)-Coated Silica Nanoparticles by Human Phagocytes. <i>ACS Nano</i> , 2018, 12, 5834-5847.	7.3	86
33	Discrepancies in the in vitro and in vivo role of scavenger receptors in clearance of nanoparticles by Kupffer cells. <i>Precision Nanomedicine</i> , 2018, 1, 76-84.	0.4	3
34	Longitudinal monitoring of skin accumulation of nanocarriers and biologicals with fiber optic near infrared fluorescence spectroscopy (FONIRS). <i>Journal of Controlled Release</i> , 2017, 247, 167-174.	4.8	9
35	Cell-penetrating peptide CGKRK mediates efficient and widespread targeting of bladder mucosa following focal injury. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2017, 13, 1925-1932.	1.7	21
36	Complement proteins bind to nanoparticle protein corona and undergo dynamic exchange in vivo. <i>Nature Nanotechnology</i> , 2017, 12, 387-393.	15.6	411

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37	Variability of Complement Response toward Preclinical and Clinical Nanocarriers in the General Population. <i>Bioconjugate Chemistry</i> , 2017, 28, 2747-2755.	1.8	35
38	Revealing Dynamics of Accumulation of Systemically Injected Liposomes in the Skin by Intravital Microscopy. <i>ACS Nano</i> , 2017, 11, 11584-11593.	7.3	21
39	Interaction of extremophilic archaeal viruses with human and mouse complement system and viral biodistribution in mice. <i>Molecular Immunology</i> , 2017, 90, 273-279.	1.0	5
40	Watching the gorilla and questioning delivery dogma. <i>Journal of Controlled Release</i> , 2017, 262, 87-90.	4.8	23
41	In Vitro and In Vivo Differences in Murine Third Complement Component (C3) Opsonization and Macrophage/Leukocyte Responses to Antibody-Functionalized Iron Oxide Nanoworms. <i>Frontiers in Immunology</i> , 2017, 8, 151.	2.2	40
42	Activation of Human Complement System by Dextran-Coated Iron Oxide Nanoparticles Is Not Affected by Dextran/Fe Ratio, Hydroxyl Modifications, and Crosslinking. <i>Frontiers in Immunology</i> , 2016, 7, 418.	2.2	43
43	Iron oxide nanoparticles and the mechanisms of immune recognition of nanomedicines. <i>Nanomedicine</i> , 2016, 11, 741-743.	1.7	7
44	Modulatory Role of Surface Coating of Superparamagnetic Iron Oxide Nanoworms in Complement Opsonization and Leukocyte Uptake. <i>ACS Nano</i> , 2015, 9, 10758-10768.	7.3	82
45	Opening Windows into Tumors. <i>ACS Nano</i> , 2015, 9, 8647-8650.	7.3	9
46	Characteristics of liposomal encapsulation of an archetypal multi-kinase inhibitor in terms of antitumor activity and avoidance of systemic toxicity.. <i>Journal of Clinical Oncology</i> , 2015, 33, e13589-e13589.	0.8	0
47	High-Relaxivity Superparamagnetic Iron Oxide Nanoworms with Decreased Immune Recognition and Long-Circulating Properties. <i>ACS Nano</i> , 2014, 8, 12437-12449.	7.3	58
48	Distearoyl Anchor Painted Erythrocytes with Prolonged Ligand Retention and Circulation Properties In Vivo. <i>Advanced Healthcare Materials</i> , 2014, 3, 142-148.	3.9	39
49	Mechanisms of complement activation by dextran-coated superparamagnetic iron oxide (SPIO) nanoworms in mouse versus human serum. <i>Particle and Fibre Toxicology</i> , 2014, 11, 64.	2.8	79
50	Targeting and depletion of circulating leukocytes and cancer cells by lipophilic antibody-modified erythrocytes. <i>Journal of Controlled Release</i> , 2014, 183, 146-153.	4.8	45
51	Binding and isolation of tumor cells in biological media with perfluorocarbon microbubbles. <i>Methods</i> , 2013, 64, 102-107.	1.9	8
52	Direct Recognition of Superparamagnetic Nanocrystals by Macrophage Scavenger Receptor SR-AI. <i>ACS Nano</i> , 2013, 7, 4289-4298.	7.3	63
53	Isolation of Rare Tumor Cells from Blood Cells with Buoyant Immuno-Microbubbles. <i>PLoS ONE</i> , 2013, 8, e58017.	1.1	33
54	Role of Carbohydrate Receptors in the Macrophage Uptake of Dextran-Coated Iron Oxide Nanoparticles. <i>Advances in Experimental Medicine and Biology</i> , 2012, 733, 115-123.	0.8	45

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55	Different Effect of Hydrogelation on Antifouling and Circulation Properties of Dextran-iron Oxide Nanoparticles. <i>Molecular Pharmaceutics</i> , 2012, 9, 539-545.	2.3	33
56	Recognition of Dextran-Superparamagnetic Iron Oxide Nanoparticle Conjugates (Feridex) via Macrophage Scavenger Receptor Charged Domains. <i>Bioconjugate Chemistry</i> , 2012, 23, 1003-1009.	1.8	59
57	Interactions of nanoparticles with plasma proteins: implication on clearance and toxicity of drug delivery systems. <i>Expert Opinion on Drug Delivery</i> , 2011, 8, 343-357.	2.4	299
58	Contact activation of kallikrein-kinin system by superparamagnetic iron oxide nanoparticles in vitro and in vivo. <i>Journal of Controlled Release</i> , 2009, 140, 301-305.	4.8	41
59	Differential proteomics analysis of the surface heterogeneity of dextran iron oxide nanoparticles and the implications for their in vivo clearance. <i>Biomaterials</i> , 2009, 30, 3926-3933.	5.7	148
60	Targeting of perfluorocarbon microbubbles to selective populations of circulating blood cells. <i>Journal of Drug Targeting</i> , 2009, 17, 392-398.	2.1	15
61	Biomimetic amplification of nanoparticle homing to tumors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 932-936.	3.3	434