

Jai W Seo

List of Publications by Year in descending order

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48
papers

2,045
citations

201674

27
h-index

233421

45
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all docs

51
docs citations

51
times ranked

3437
citing authors

#	ARTICLE	IF	CITATIONS
1	The atypical mechanosensitive microRNA-712 derived from pre-ribosomal RNA induces endothelial inflammation and atherosclerosis. <i>Nature Communications</i> , 2013, 4, 3000.	12.8	198
2	Multifunctional Nanoparticles Facilitate Molecular Targeting and miRNA Delivery to Inhibit Atherosclerosis in ApoE ^{-/-} Mice. <i>ACS Nano</i> , 2015, 9, 8885-8897.	14.6	150
3	A Novel Method to Label Preformed Liposomes with ⁶⁴ Cu for Positron Emission Tomography (PET) Imaging. <i>Bioconjugate Chemistry</i> , 2008, 19, 2577-2584.	3.6	112
4	Specific penetration and accumulation of a homing peptide within atherosclerotic plaques of apolipoprotein E-deficient mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 7154-7159.	7.1	102
5	Copper ⁶⁴ -Doxorubicin as a Nanoparticle Cargo Retains Efficacy with Minimal Toxicity. <i>Molecular Pharmaceutics</i> , 2010, 7, 1948-1958.	4.6	99
6	Long-Circulating 15 nm Micelles Based on Amphiphilic 3-Helix Peptide-PEG Conjugates. <i>ACS Nano</i> , 2012, 6, 5320-5329.	14.6	91
7	Ultrasound Increases Nanoparticle Delivery by Reducing Intratumoral Pressure and Increasing Transport in Epithelial and Epithelial-Mesenchymal Transition Tumors. <i>Cancer Research</i> , 2012, 72, 1485-1493.	0.9	86
8	CD8 ⁺ T-Cell Density Imaging with ⁶⁴ Cu-Labeled Cys-Diabody Informs Immunotherapy Protocols. <i>Clinical Cancer Research</i> , 2018, 24, 4976-4987.	7.0	79
9	⁶⁴ Cu-Labeled LyP-1-Dendrimer for PET-CT Imaging of Atherosclerotic Plaque. <i>Bioconjugate Chemistry</i> , 2014, 25, 231-239.	3.6	74
10	Hydroxylation of Alkyl Halides with Water in Ionic Liquid: A Significantly Enhanced Nucleophilicity of Water. <i>Journal of Organic Chemistry</i> , 2004, 69, 3186-3189.	3.2	72
11	An efficient F-18 labeling method for PET study: Huisgen 1,3-dipolar cycloaddition of bioactive substances and F-18-labeled compounds. <i>Tetrahedron Letters</i> , 2007, 48, 3953-3957.	1.4	72
12	Novel Method to Label Solid Lipid Nanoparticles with ⁶⁴ Cu for Positron Emission Tomography Imaging. <i>Bioconjugate Chemistry</i> , 2011, 22, 808-818.	3.6	64
13	Self-assembled 20-nm ⁶⁴ Cu-micelles enhance accumulation in rat glioblastoma. <i>Journal of Controlled Release</i> , 2015, 220, 51-60.	9.9	57
14	An optical and microPET assessment of thermally-sensitive liposome biodistribution in the Met-1 tumor model: Importance of formulation. <i>Journal of Controlled Release</i> , 2010, 143, 13-22.	9.9	56
15	Fluorine-Substituted Cyclofenil Derivatives as Estrogen Receptor Ligands: A Synthesis and Structure-Affinity Relationship Study of Potential Positron Emission Tomography Agents for Imaging Estrogen Receptors in Breast Cancer. <i>Journal of Medicinal Chemistry</i> , 2006, 49, 2496-2511.	6.4	45
16	Liposomal Cu-64 Labeling Method Using Bifunctional Chelators: Poly(ethylene glycol) Spacer and Chelator Effects. <i>Bioconjugate Chemistry</i> , 2010, 21, 1206-1215.	3.6	45
17	Multimodal imaging enables early detection and characterization of changes in tumor permeability of brain metastases. <i>Journal of Controlled Release</i> , 2013, 172, 812-822.	9.9	43
18	An Imaging-Driven Model for Liposomal Stability and Circulation. <i>Molecular Pharmaceutics</i> , 2010, 7, 12-21.	4.6	42

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19	Dynamic imaging of arginine-rich heart-targeted vehicles in a mouse model. <i>Biomaterials</i> , 2008, 29, 1976-1988.	11.4	38
20	The pharmacokinetics of Zr-89 labeled liposomes over extended periods in a murine tumor model. <i>Nuclear Medicine and Biology</i> , 2015, 42, 155-163.	0.6	37
21	In situ T-cell transfection by anti-CD3-conjugated lipid nanoparticles leads to T-cell activation, migration, and phenotypic shift. <i>Biomaterials</i> , 2022, 281, 121339.	11.4	36
22	Positron emission tomography imaging of the stability of Cu-64 labeled dipalmitoyl and distearoyl lipids in liposomes. <i>Journal of Controlled Release</i> , 2011, 151, 28-34.	9.9	35
23	Effect of Alkyl Length of Peptide-Polymer Amphiphile on Cargo Encapsulation Stability and Pharmacokinetics of 3-Helix Micelles. <i>Biomacromolecules</i> , 2014, 15, 2963-2970.	5.4	35
24	Fast and Easy Drying Method for the Preparation of Activated [18F]Fluoride Using Polymer Cartridge. <i>Bulletin of the Korean Chemical Society</i> , 2011, 32, 71-76.	1.9	35
25	Longitudinal Investigation of Permeability and Distribution of Macromolecules in Mouse Malignant Transformation Using PET. <i>Clinical Cancer Research</i> , 2011, 17, 550-559.	7.0	32
26	Evaluation of Doxorubicin-Loaded 3-Helix Micelles as Nanocarriers. <i>Biomacromolecules</i> , 2013, 14, 3697-3705.	5.4	31
27	Syntheses and radical scavenging activities of resveratrol derivatives. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2004, 14, 463-466.	2.2	29
28	A comparison of image contrast with (64)Cu-labeled long circulating liposomes and (18)F-FDG in a murine model of mammary carcinoma. <i>American Journal of Nuclear Medicine and Molecular Imaging</i> , 2013, 3, 32-43.	1.0	26
29	A novel compound PTIQ protects the nigral dopaminergic neurones in an animal model of Parkinson's disease induced by MPTP. <i>British Journal of Pharmacology</i> , 2012, 165, 2213-2227.	5.4	25
30	Comparison of PET Imaging with 64Cu-Liposomes and 18F-FDG in the 7,12-Dimethylbenz[a]anthracene (DMBA)-Induced Hamster Buccal Pouch Model of Oral Dysplasia and Squamous Cell Carcinoma. <i>Molecular Imaging and Biology</i> , 2014, 16, 284-292.	2.6	25
31	Convenient One-Pot Synthesis of 2,2-Bis-(4-hydroxyphenyl)-cyclopentanone. <i>Journal of Organic Chemistry</i> , 2008, 73, 715-718.	3.2	24
32	Ultrasound ablation enhances drug accumulation and survival in mammary carcinoma models. <i>Journal of Clinical Investigation</i> , 2015, 126, 99-111.	8.2	24
33	Positron emission tomography imaging of novel AAV capsids maps rapid brain accumulation. <i>Nature Communications</i> , 2020, 11, 2102.	12.8	17
34	Synthesis and biodistribution of fluorine-18-labeled fluorocyclofenils for imaging the estrogen receptor. <i>Nuclear Medicine and Biology</i> , 2007, 34, 383-390.	0.6	16
35	Syntheses of tetrahydroisoquinoline derivatives that inhibit NO production in activated BV-2 microglial cells. <i>European Journal of Medicinal Chemistry</i> , 2008, 43, 1160-1170.	5.5	16
36	A Physiological Perspective on the Use of Imaging to Assess the In Vivo Delivery of Therapeutics. <i>Annals of Biomedical Engineering</i> , 2014, 42, 280-298.	2.5	12

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37	2-Acetyl-7-hydroxy-6-methoxy-1-methyl-1,2,3,4-tetrahydroisoquinoline exhibits anti-inflammatory properties and protects the nigral dopaminergic neurons. <i>European Journal of Pharmacology</i> , 2016, 771, 152-161.	3.5	12
38	Quantitation of nanoparticle accumulation in flow using optimized microfluidic chambers. <i>Journal of Drug Targeting</i> , 2014, 22, 48-56.	4.4	10
39	Dynamic contrast enhanced MRI detects changes in vascular transport rate constants following treatment with thermally-sensitive liposomal doxorubicin. <i>Journal of Controlled Release</i> , 2017, 256, 203-213.	9.9	10
40	Syntheses of NAMDA derivatives inhibiting NO production in BV-2 cells stimulated with lipopolysaccharide. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2005, 15, 3369-3373.	2.2	9
41	New synthetic method for benzofurans from 2-(cyanomethyl)phenyl derivatives. <i>Tetrahedron</i> , 2012, 68, 3942-3947.	1.9	9
42	A Scalable Method for Squalenylation and Assembly of Multifunctional ⁶⁴ Cu-Labeled Squalenylated Gemcitabine Nanoparticles. <i>Nanotheranostics</i> , 2018, 2, 387-402.	5.2	7
43	A phantom for visualization of three-dimensional drug release by ultrasound-induced mild hyperthermia. <i>Medical Physics</i> , 2013, 40, 083301.	3.0	3
44	AETIQ: A Novel Synthetic Compound with Anti-inflammatory Properties in Activated Microglia. <i>Inflammation</i> , 2014, 37, 766-774.	3.8	2
45	Pre-clinical evaluation of immunoPET imaging using agonist CD40 monoclonal antibody in pancreatic tumor-bearing mice. <i>Nuclear Medicine and Biology</i> , 2021, 98-99, 8-17.	0.6	2
46	Imaging nanoparticle stability and activation in vivo. , 2009, 2009, 4580-1.		1
47	Hydroxylation of Alkyl Halides with Water in Ionic Liquid: Significantly Enhanced Nucleophilicity of Water.. <i>ChemInform</i> , 2004, 35, no.	0.0	0
48	Enhanced delivery of AAV-like nanoparticles after blood-brain barrier disruption in a mouse model. , 2019, , .		0