

# Seungpyo Hong

## List of Publications by Year in descending order

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83  
papers

12,993  
citations

87888

38  
h-index

64796

79  
g-index

85  
all docs

85  
docs citations

85  
times ranked

19680  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dendrimers for cancer immunotherapy: Avidity-based drug delivery vehicles for effective anti-tumor immune response. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2022, 14, e1752.	6.1	13
2	Gold nanoparticles in virus detection: Recent advances and potential considerations for SARS-CoV-2 testing development. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2022, 14, e1754.	6.1	38
3	Native Ion Mobility-Mass Spectrometry-Enabled Fast Structural Interrogation of Labile Protein Surface Modifications at the Intact Protein Level. <i>Analytical Chemistry</i> , 2022, 94, 2142-2153.	6.5	6
4	Branched, dendritic, and hyperbranched polymers in liquid biopsy device design. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2022, 14, e1770.	6.1	6
5	Dendrimers and dendritic nanoparticles for stimuli-responsive nanomedicine. , 2022, , 119-131.		1
6	Cross-Decoration of Dendritic Cells by Non-Inherited Maternal Antigen-Containing Extracellular Vesicles: Potential Mechanism for PD-L1-Based Tolerance in Cord Blood and Organ Transplantation. <i>American Journal of Transplantation</i> , 2022, , .	4.7	2
7	Depletion of tumor associated macrophages enhances local and systemic platelet-mediated anti-PD-1 delivery for post-surgery tumor recurrence treatment. <i>Nature Communications</i> , 2022, 13, 1845.	12.8	77
8	Hierarchically Multivalent Peptide-Nanoparticle Architectures: A Systematic Approach to Engineer Surface Adhesion. <i>Advanced Science</i> , 2022, 9, e2103098.	11.2	11
9	Cytochalasin B Treatment and Osmotic Pressure Enhance the Production of Extracellular Vesicles (EVs) with Improved Drug Loading Capacity. <i>Nanomaterials</i> , 2022, 12, 3.	4.1	10
10	Machine-Learning-Based Clinical Biomarker Using Cell-Free DNA for Hepatocellular Carcinoma (HCC). <i>Cancers</i> , 2022, 14, 2061.	3.7	13
11	AXL regulates neuregulin1 expression leading to cetuximab resistance in head and neck cancer. <i>BMC Cancer</i> , 2022, 22, 447.	2.6	4
12	Dendritic-Linear Copolymer and Dendron Lipid Nanoparticles for Drug and Gene Delivery. <i>Bioconjugate Chemistry</i> , 2022, , .	3.6	3
13	Bimodal liquid biopsy for cancer immunotherapy based on peptide engineering and nanoscale analysis. <i>Biosensors and Bioelectronics</i> , 2022, 213, 114445.	10.1	14
14	Physiological Roles of Monomeric Amyloid- $\beta$ and Implications for Alzheimer's Disease Therapeutics. <i>Experimental Neurobiology</i> , 2022, 31, 65-88.	1.6	21
15	Orally Administered Benzofuran Derivative Disaggregated A $\beta$ Plaques and Oligomers in the Brain of 5XFAD Alzheimer Transgenic Mouse. <i>ACS Chemical Neuroscience</i> , 2021, 12, 99-108.	3.5	5
16	Size-Dependent Drug Loading, Gene Complexation, Cell Uptake, and Transfection of a Novel Dendron-Lipid Nanoparticle for Drug/Gene Co-delivery. <i>Biomacromolecules</i> , 2021, 22, 3746-3755.	5.4	7
17	Tri-modal liquid biopsy: Combinational analysis of circulating tumor cells, exosomes, and cell-free DNA using machine learning algorithm. <i>Clinical and Translational Medicine</i> , 2021, 11, e499.	4.0	13
18	Chemically and Biologically Engineered Bacteria-Based Delivery Systems for Emerging Diagnosis and Advanced Therapy. <i>Advanced Materials</i> , 2021, 33, e2102580.	21.0	93

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19	Nanoparticle Conjugation Stabilizes and Multimerizes $\beta$ -Hairpin Peptides To Effectively Target PD-1/PD-L1 $\beta$ -Sheet-Rich Interfaces. <i>Journal of the American Chemical Society</i> , 2020, 142, 1832-1837.	13.7	39
20	Nanoapproaches to Modifying Epigenetics of Epithelial Mesenchymal Transition for Treatment of Pulmonary Fibrosis. <i>Frontiers in Pharmacology</i> , 2020, 11, 607689.	3.5	28
21	Immunoavidity-Based Capture of Tumor Exosomes Using Poly(amidoamine) Dendrimer Surfaces. <i>Nano Letters</i> , 2020, 20, 5686-5692.	9.1	39
22	An Avidity-Based PD-L1 Antagonist Using Nanoparticle-Antibody Conjugates for Enhanced Immunotherapy. <i>Nano Letters</i> , 2020, 20, 4901-4909.	9.1	69
23	Treg-Cell-Derived IL-35-Coated Extracellular Vesicles Promote Infectious Tolerance. <i>Cell Reports</i> , 2020, 30, 1039-1051.e5.	6.4	93
24	Surface engineering for efficient capture of circulating tumor cells in renal cell carcinoma: From nanoscale analysis to clinical application. <i>Biosensors and Bioelectronics</i> , 2020, 162, 112250.	10.1	27
25	AXL Mediates Cetuximab and Radiation Resistance Through Tyrosine 821 and the c-ABL Kinase Pathway in Head and Neck Cancer. <i>Clinical Cancer Research</i> , 2020, 26, 4349-4359.	7.0	26
26	Alzheimer's Disease Diagnosis Using Misfolding Proteins in Blood. <i>Dementia and Neurocognitive Disorders</i> , 2020, 19, 1.	1.4	9
27	Enhanced detection of cell-free DNA (cfDNA) enables its use as a reliable biomarker for diagnosis and prognosis of gastric cancer. <i>PLoS ONE</i> , 2020, 15, e0242145.	2.5	14
28	Tumor penetration of Sub-10 nm nanoparticles: effect of dendrimer properties on their penetration in multicellular tumor spheroids. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2019, 21, 102059.	3.3	25
29	Sub-lethal hyperthermia promotes epithelial-to-mesenchymal-like transition of breast cancer cells: implication of the synergy between hyperthermia and chemotherapy. <i>RSC Advances</i> , 2019, 9, 52-57.	3.6	24
30	Dendrimer-Based Platform for Effective Capture of Tumor Cells after TGF $\beta$ <sub>1</sub> -Induced Epithelial-Mesenchymal Transition. <i>Analytical Chemistry</i> , 2019, 91, 8374-8382.	6.5	11
31	Diagnosis of Alzheimer's disease utilizing amyloid and tau as fluid biomarkers. <i>Experimental and Molecular Medicine</i> , 2019, 51, 1-10.	7.7	150
32	Noncatalytic Endosialidase Enables Surface Capture of Small-Cell Lung Cancer Cells Utilizing Strong Dendrimer-Mediated Enzyme-Glycoprotein Interactions. <i>Analytical Chemistry</i> , 2018, 90, 3670-3675.	6.5	14
33	Clinical indications for, and the future of, circulating tumor cells. <i>Advanced Drug Delivery Reviews</i> , 2018, 125, 143-150.	13.7	57
34	Bespoke Pretargeted Nanoradioimmunotherapy for the Treatment of Non-Hodgkin Lymphoma. <i>ACS Nano</i> , 2018, 12, 1544-1563.	14.6	38
35	Multivalent Binding and Biomimetic Cell Rolling Improves the Sensitivity and Specificity of Circulating Tumor Cell Capture. <i>Clinical Cancer Research</i> , 2018, 24, 2539-2547.	7.0	32
36	Integration of biomimicry and nanotechnology for significantly improved detection of circulating tumor cells (CTCs). <i>Advanced Drug Delivery Reviews</i> , 2018, 125, 36-47.	13.7	23

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37	Peptideâ€“nanoparticle conjugates: a next generation of diagnostic and therapeutic platforms?. Nano Convergence, 2018, 5, 38.	12.1	140
38	Would antioxidant-loaded nanoparticles present an effective treatment for ischemic stroke?. Nanomedicine, 2018, 13, 2327-2340.	3.3	25
39	Dendritic PEG outer shells enhance serum stability of polymeric micelles. Nanomedicine: Nanotechnology, Biology, and Medicine, 2018, 14, 1879-1889.	3.3	35
40	Nanotechnology enabling the use of circulating tumor cells (CTCs) as reliable cancer biomarkers. Advanced Drug Delivery Reviews, 2018, 125, 1-2.	13.7	7
41	MULTIFUNCTIONAL DENDRITIC NANOPARTICLES AS A NANOMEDICINE PLATFORM. Frontiers in Nanobiomedical Research, 2018, , 155-186.	0.1	0
42	Dendrimerâ€“based nanocarriers: a versatile platform for drug delivery. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2017, 9, e1409.	6.1	132
43	Next-Generation CDK2/9 Inhibitors and Anaphase Catastrophe in Lung Cancer. Journal of the National Cancer Institute, 2017, 109, .	6.3	41
44	Cover Image, Volume 8, Issue 2. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2016, 8, i-i.	6.1	0
45	miR-22 has a potent anti-tumour role with therapeutic potential in acute myeloid leukaemia. Nature Communications, 2016, 7, 11452.	12.8	113
46	Eradication of Acute Myeloid Leukemia with FLT3 Ligandâ€“Targeted miR-150 Nanoparticles. Cancer Research, 2016, 76, 4470-4480.	0.9	48
47	Tuning the Selectivity of Dendron Micelles Through Variations of the Poly(ethylene glycol) Corona. ACS Nano, 2016, 10, 6905-6914.	14.6	43
48	Recent advances in nanotechnologyâ€“based detection and separation of circulating tumor cells. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2016, 8, 223-239.	6.1	45
49	Size and Surface Charge of Engineered Poly(amidoamine) Dendrimers Modulate Tumor Accumulation and Penetration: A Model Study Using Multicellular Tumor Spheroids. Molecular Pharmaceutics, 2016, 13, 2155-2163.	4.6	89
50	Single plasmonic nanoparticles for ultrasensitive DNA sensing: From invisible to visible. Biosensors and Bioelectronics, 2016, 79, 266-272.	10.1	25
51	The Cyclic Peptide Ecumicin Targeting ClpC1 Is Active against Mycobacterium tuberculosis In Vivo. Antimicrobial Agents and Chemotherapy, 2015, 59, 880-889.	3.2	148
52	Tweaking dendrimers and dendritic nanoparticles for controlled nano-bio interactions: potential nanocarriers for improved cancer targeting. Journal of Drug Targeting, 2015, 23, 642-650.	4.4	55
53	Effective Capture of Circulating Tumor Cells from a Transgenic Mouse Lung Cancer Model Using Dendrimer Surfaces Immobilized with Anti-EGFR. Analytical Chemistry, 2015, 87, 10096-10102.	6.5	39
54	Recent advances in targeted drug delivery approaches using dendritic polymers. Biomaterials Science, 2015, 3, 1025-1034.	5.4	39

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55	Understanding nano-bio interactions to improve nanocarriers for drug delivery. MRS Bulletin, 2014, 39, 227-237.	3.5	50
56	BIOINSPIRED ENGINEERING OF MULTIFUNCTIONAL DEVICES. World Scientific Series in Nanoscience and Nanotechnology, 2014, , 31-63.	0.1	0
57	Drug Delivery: Dendron-Based Micelles for Topical Delivery of Endoxifen: A Potential Chemo-Preventive Medicine for Breast Cancer (Adv. Funct. Mater. 17/2014). Advanced Functional Materials, 2014, 24, 2441-2441.	14.9	0
58	Dendron-Based Micelles for Topical Delivery of Endoxifen: A Potential Chemo-Preventive Medicine for Breast Cancer. Advanced Functional Materials, 2014, 24, 2442-2449.	14.9	49
59	Targeting of follicle stimulating hormone peptide-conjugated dendrimers to ovarian cancer cells. Nanoscale, 2014, 6, 2812-2820.	5.6	53
60	Poly(ethylene glycol) Corona Chain Length Controls End-Group-Dependent Cell Interactions of Dendron Micelles. Macromolecules, 2014, 47, 6911-6918.	4.8	32
61	Differential Detection of Tumor Cells Using a Combination of Cell Rolling, Multivalent Binding, and Multiple Antibodies. Analytical Chemistry, 2014, 86, 6088-6094.	6.5	44
62	Prolonged blood circulation and enhanced tumor accumulation of folate-targeted dendrimer-polymer hybrid nanoparticles. Journal of Controlled Release, 2014, 191, 115-122.	9.9	120
63	Biomolecular corona on nanoparticles: a survey of recent literature and its implications in targeted drug delivery. Frontiers in Chemistry, 2014, 2, 108.	3.6	108
64	Epithelial-Mesenchymal Transition Enhances Nanoscale Actin Filament Dynamics of Ovarian Cancer Cells. Journal of Physical Chemistry B, 2013, 117, 9233-9240.	2.6	16
65	Nanoscale polymeric penetration enhancers in topical drug delivery. Polymer Chemistry, 2013, 4, 2651.	3.9	22
66	Positively Charged Dendron Micelles Display Negligible Cellular Interactions. ACS Macro Letters, 2013, 2, 77-81.	4.8	29
67	Dendritic nanoparticles: the next generation of nanocarriers?. Therapeutic Delivery, 2012, 3, 941-959.	2.2	46
68	Channel Surface Patterning of Alternating Biomimetic Protein Combinations for Enhanced Microfluidic Tumor Cell Isolation. Analytical Chemistry, 2012, 84, 4022-4028.	6.5	30
69	The role of polymers in detection and isolation of circulating tumor cells. Polymer Chemistry, 2012, 3, 2336.	3.9	13
70	Effect of Size, Surface Charge, and Hydrophobicity of Poly(amidoamine) Dendrimers on Their Skin Penetration. Biomacromolecules, 2012, 13, 2154-2162.	5.4	138
71	Temporal Control over Cellular Targeting through Hybridization of Folate-targeted Dendrimers and PEG-PLA Nanoparticles. Biomacromolecules, 2012, 13, 1223-1230.	5.4	47
72	Direct Measurements on CD24-Mediated Rolling of Human Breast Cancer MCF-7 Cells on E-Selectin. Analytical Chemistry, 2011, 83, 1078-1083.	6.5	53

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73	Dendrimer-mediated Multivalent Binding for the Enhanced Capture of Tumor Cells. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 11769-11772.	13.8	147
74	Dendron-mediated self-assembly of highly PEGylated block copolymers: a modular nanocarrier platform. <i>Chemical Communications</i> , 2011, 47, 10302.	4.1	49
75	Enhanced Tumor Cell Isolation by a Biomimetic Combination of E-selectin and anti-EpCAM: Implications for the Effective Separation of Circulating Tumor Cells (CTCs). <i>Langmuir</i> , 2010, 26, 8589-8596.	3.5	83
76	The Role of Ganglioside GM1 in Cellular Internalization Mechanisms of Poly(amidoamine) Dendrimers. <i>Bioconjugate Chemistry</i> , 2009, 20, 1503-1513.	3.6	68
77	Nanomechanical Control of Cell Rolling in Two Dimensions through Surface Patterning of Receptors. <i>Nano Letters</i> , 2008, 8, 1153-1158.	9.1	53
78	Covalent Immobilization of P-Selectin Enhances Cell Rolling. <i>Langmuir</i> , 2007, 23, 12261-12268.	3.5	42
79	The Binding Avidity of a Nanoparticle-Based Multivalent Targeted Drug Delivery Platform. <i>Chemistry and Biology</i> , 2007, 14, 107-115.	6.0	521
80	Targeted nanoparticles for cancer therapy. <i>Nano Today</i> , 2007, 2, 14-21.	11.9	431
81	Nanocarriers as an emerging platform for cancer therapy. <i>Nature Nanotechnology</i> , 2007, 2, 751-760.	31.5	7,469
82	Interaction of Polycationic Polymers with Supported Lipid Bilayers and Cells: Nanoscale Hole Formation and Enhanced Membrane Permeability. <i>Bioconjugate Chemistry</i> , 2006, 17, 728-734.	3.6	623
83	Interaction of Poly(amidoamine) Dendrimers with Supported Lipid Bilayers and Cells: Hole Formation and the Relation to Transport. <i>Bioconjugate Chemistry</i> , 2004, 15, 774-782.	3.6	556