

Hiroshi Maeda

List of Publications by Year in descending order

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160
papers

28,542
citations

11608

70
h-index

6979

154
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168
all docs

168
docs citations

168
times ranked

25893
citing authors

#	ARTICLE	IF	CITATIONS
1	The EPR effect: Unique features of tumor blood vessels for drug delivery, factors involved, and limitations and augmentation of the effect. <i>Advanced Drug Delivery Reviews</i> , 2011, 63, 136-151.	6.6	3,020
2	The enhanced permeability and retention (EPR) effect in tumor vasculature: the key role of tumor-selective macromolecular drug targeting. <i>Advances in Enzyme Regulation</i> , 2001, 41, 189-207.	2.9	2,132
3	The EPR effect for macromolecular drug delivery to solid tumors: Improvement of tumor uptake, lowering of systemic toxicity, and distinct tumor imaging in vivo. <i>Advanced Drug Delivery Reviews</i> , 2013, 65, 71-79.	6.6	1,960
4	Exploiting the enhanced permeability and retention effect for tumor targeting. <i>Drug Discovery Today</i> , 2006, 11, 812-818.	3.2	1,633
5	Polymeric drugs for efficient tumor-targeted drug delivery based on EPR-effect. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2009, 71, 409-419.	2.0	1,055
6	Toward a full understanding of the EPR effect in primary and metastatic tumors as well as issues related to its heterogeneity. <i>Advanced Drug Delivery Reviews</i> , 2015, 91, 3-6.	6.6	934
7	Tumor-Selective Delivery of Macromolecular Drugs via the EPR Effect: Background and Future Prospects. <i>Bioconjugate Chemistry</i> , 2010, 21, 797-802.	1.8	874
8	Mechanism of tumor-targeted delivery of macromolecular drugs, including the EPR effect in solid tumor and clinical overview of the prototype polymeric drug SMANCS. <i>Journal of Controlled Release</i> , 2001, 74, 47-61.	4.8	861
9	Macromolecular therapeutics in cancer treatment: The EPR effect and beyond. <i>Journal of Controlled Release</i> , 2012, 164, 138-144.	4.8	705
10	Antagonistic action of imidazolineoxyl N-oxides against endothelium-derived relaxing factor/.bul.NO (nitric oxide) through a radical reaction. <i>Biochemistry</i> , 1993, 32, 827-832.	1.2	575
11	Conjugates of anticancer agents and polymers: advantages of macromolecular therapeutics in vivo. <i>Bioconjugate Chemistry</i> , 1992, 3, 351-362.	1.8	535
12	SMANCS and polymer-conjugated macromolecular drugs: advantages in cancer chemotherapy. <i>Advanced Drug Delivery Reviews</i> , 2001, 46, 169-185.	6.6	514
13	Therapeutic strategies by modulating oxygen stress in cancer and inflammation. <i>Advanced Drug Delivery Reviews</i> , 2009, 61, 290-302.	6.6	476
14	Vascular permeability enhancement in solid tumor: various factors, mechanisms involved and its implications. <i>International Immunopharmacology</i> , 2003, 3, 319-328.	1.7	462
15	Early Phase Tumor Accumulation of Macromolecules: A Great Difference in Clearance Rate between Tumor and Normal Tissues. <i>Japanese Journal of Cancer Research</i> , 1998, 89, 307-314.	1.7	431
16	Exploiting the dynamics of the EPR effect and strategies to improve the therapeutic effects of nanomedicines by using EPR effect enhancers. <i>Advanced Drug Delivery Reviews</i> , 2020, 157, 142-160.	6.6	410
17	Activation of Matrix Metalloproteinases by Peroxynitrite-induced Protein S-Glutathiolation via Disulfide S-Oxide Formation. <i>Journal of Biological Chemistry</i> , 2001, 276, 29596-29602.	1.6	394
18	Analyses of repeated failures in cancer therapy for solid tumors: poor tumor-selective drug delivery, low therapeutic efficacy and unsustainable costs. <i>Clinical and Translational Medicine</i> , 2018, 7, 11.	1.7	337

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19	Effect of arterial administration of high-molecular-weight anticancer agent SMANCS with lipid lymphographic agent on hepatoma: a preliminary report. <i>European Journal of Cancer & Clinical Oncology</i> , 1983, 19, 1053-1065.	0.9	318
20	A Retrospective 30 Years After Discovery of the Enhanced Permeability and Retention Effect of Solid Tumors: Next-Generation Chemotherapeutics and Photodynamic Therapy Problems, Solutions, and Prospects. <i>Microcirculation</i> , 2016, 23, 173-182.	1.0	273
21	Macromolecular Therapeutics. <i>Clinical Pharmacokinetics</i> , 2003, 42, 1089-1105.	1.6	260
22	Conjugation of poly(styrene-co-maleic acid) derivatives to the antitumor protein neocarzinostatin: pronounced improvements in pharmacological properties. <i>Journal of Medicinal Chemistry</i> , 1985, 28, 455-461.	2.9	234
23	Vascular permeability in cancer and infection as related to macromolecular drug delivery, with emphasis on the EPR effect for tumor-selective drug targeting. <i>Proceedings of the Japan Academy Series B: Physical and Biological Sciences</i> , 2012, 88, 53-71.	1.6	233
24	Selective targeting of anti-cancer drug and simultaneous image enhancement in solid tumors by arterially administered lipid contrast medium. <i>Cancer</i> , 1984, 54, 2367-2374.	2.0	226
25	Activation of Human Neutrophil Procollagenase by Nitrogen Dioxide and Peroxynitrite: A Novel Mechanism for Procollagenase Activation Involving Nitric Oxide. <i>Archives of Biochemistry and Biophysics</i> , 1997, 342, 261-274.	1.4	217
26	SMANCS and polymer-conjugated macromolecular drugs: advantages in cancer chemotherapy. <i>Advanced Drug Delivery Reviews</i> , 1991, 6, 181-202.	6.6	211
27	Enhanced Vascular Permeability in Solid Tumor Is Mediated by Nitric Oxide and Inhibited by Both New Nitric Oxide Scavenger and Nitric Oxide Synthase Inhibitor. <i>Japanese Journal of Cancer Research</i> , 1994, 85, 331-334.	1.7	200
28	EPR effect based drug design and clinical outlook for enhanced cancer chemotherapy. <i>Advanced Drug Delivery Reviews</i> , 2011, 63, 129-130.	6.6	193
29	Development of next-generation macromolecular drugs based on the EPR effect: challenges and pitfalls. <i>Expert Opinion on Drug Delivery</i> , 2015, 12, 53-64.	2.4	193
30	Factors and Mechanism of "EPR" Effect and the Enhanced Antitumor Effects of Macromolecular Drugs Including SMANCS. , 2003, 519, 29-49.		188
31	SMA "doxorubicin, a new polymeric micellar drug for effective targeting to solid tumours. <i>Journal of Controlled Release</i> , 2004, 97, 219-230.	4.8	173
32	Enhanced delivery of macromolecular antitumor drugs to tumors by nitroglycerin application. <i>Cancer Science</i> , 2009, 100, 2426-2430.	1.7	171
33	In vivo antitumor activity of pegylated zinc protoporphyrin: targeted inhibition of heme oxygenase in solid tumor. <i>Cancer Research</i> , 2003, 63, 3567-74.	0.4	166
34	8-Nitroguanosine formation in viral pneumonia and its implication for pathogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 685-690.	3.3	161
35	Elevating Blood Pressure as a Strategy to Increase Tumor-targeted Delivery of Macromolecular Drug SMANCS: Cases of Advanced Solid Tumors. <i>Japanese Journal of Clinical Oncology</i> , 2009, 39, 756-766.	0.6	156
36	Enhancement of chemotherapeutic response of tumor cells by a heme oxygenase inhibitor, pegylated zinc protoporphyrin. <i>International Journal of Cancer</i> , 2004, 109, 1-8.	2.3	153

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37	Image enhancement in computerized tomography for sensitive diagnosis of liver cancer and semiquantitation of tumor selective drug targeting with oily contrast medium. <i>Cancer</i> , 1985, 56, 751-757.	2.0	150
38	Involvement of the Kinin-generating Cascade in Enhanced Vascular Permeability in Tumor Tissue. <i>Japanese Journal of Cancer Research</i> , 1988, 79, 1327-1334.	1.7	150
39	Pathogenesis of Serratia Infection: Activation of the Hageman Factor-Prekallikrein Cascade by Serratia Protease. <i>Journal of Biochemistry</i> , 1984, 96, 739-749.	0.9	143
40	The link between infection and cancer: Tumor vasculature, free radicals, and drug delivery to tumors via the EPR effect. <i>Cancer Science</i> , 2013, 104, 779-789.	1.7	143
41	Excessive production of nitric oxide in rat solid tumor and its implication in rapid tumor growth. , 1996, 77, 1598-1604.		140
42	Enhanced Vascular Permeability in Solid Tumor Involving Peroxynitrite and Matrix Metalloproteinases. <i>Japanese Journal of Cancer Research</i> , 2001, 92, 439-451.	1.7	139
43	Free Radicals in Viral Pathogenesis: Molecular Mechanisms Involving Superoxide and NO. <i>Experimental Biology and Medicine</i> , 1998, 217, 64-73.	1.1	137
44	Pivotal role of Cu,Zn-superoxide dismutase in endothelium-dependent hyperpolarization. <i>Journal of Clinical Investigation</i> , 2003, 112, 1871-1879.	3.9	132
45	Excessive production of nitric oxide in rat solid tumor and its implication in rapid tumor growth. <i>Cancer</i> , 1996, 77, 1598-1604.	2.0	120
46	Polymer therapeutics and the EPR effect. <i>Journal of Drug Targeting</i> , 2017, 25, 781-785.	2.1	117
47	Improved anticancer effects of albumin-bound paclitaxel nanoparticle via augmentation of EPR effect and albumin-protein interactions using S-nitrosated human serum albumin dimer. <i>Biomaterials</i> , 2017, 140, 162-169.	5.7	114
48	Role of Microbial Proteases in Pathogenesis. <i>Microbiology and Immunology</i> , 1996, 40, 685-699.	0.7	112
49	Tailor-making of protein drugs by polymer conjugation for tumor targeting: A brief review on smancs. <i>The Protein Journal</i> , 1984, 3, 181-193.	1.1	109
50	Isolation, Identification, and Structure of a Potent Alkyl-Peroxyl Radical Scavenger in Crude Canola Oil, Canolol. <i>Bioscience, Biotechnology and Biochemistry</i> , 2005, 69, 1568-1574.	0.6	109
51	Antioxidative and Antimutagenic Activities of 4-Vinyl-2,6-dimethoxyphenol (Canolol) Isolated from Canola Oil. <i>Journal of Agricultural and Food Chemistry</i> , 2004, 52, 4380-4387.	2.4	106
52	Role of Nitric Oxide in Pathogenesis of Herpes Simplex Virus Encephalitis in Rats. <i>Virology</i> , 1999, 256, 203-212.	1.1	100
53	Copoly(styrene-maleic acid)~Pirarubicin Micelles:~ High Tumor-Targeting Efficiency with Little Toxicity1. <i>Bioconjugate Chemistry</i> , 2005, 16, 230-236.	1.8	100
54	Kinin-generating Cascade in Advanced Cancer Patients and in vitro Study. <i>Japanese Journal of Cancer Research</i> , 1991, 82, 732-741.	1.7	99

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55	Polymeric micelles of zinc protoporphyrin for tumor targeted delivery based on EPR effect and singlet oxygen generation. <i>Journal of Drug Targeting</i> , 2007, 15, 496-506.	2.1	99
56	Two step mechanisms of tumor selective delivery of N-(2-hydroxypropyl)methacrylamide copolymer conjugated with pirarubicin via an acid-cleavable linkage. <i>Journal of Controlled Release</i> , 2014, 174, 81-87.	4.8	98
57	Oxygen Free Radicals as Pathogenic Molecules in Viral Diseases. <i>Experimental Biology and Medicine</i> , 1991, 198, 721-727.	1.1	94
58	High-loading nanosized micelles of copoly(styrene- <i>co</i> -maleic acid)-zinc protoporphyrin for targeted delivery of a potent heme oxygenase inhibitor. <i>Biomaterials</i> , 2007, 28, 1871-1881.	5.7	91
59	Styrene-maleic acid copolymer-encapsulated CORM2, a water-soluble carbon monoxide (CO) donor with a constant CO-releasing property, exhibits therapeutic potential for inflammatory bowel disease. <i>Journal of Controlled Release</i> , 2014, 187, 14-21.	4.8	90
60	Identification of bradykinin receptors in clinical cancer specimens and murine tumor tissues. <i>International Journal of Cancer</i> , 2002, 98, 29-35.	2.3	88
61	The 35th Anniversary of the Discovery of EPR Effect: A New Wave of Nanomedicines for Tumor-Targeted Drug Delivery—Personal Remarks and Future Prospects. <i>Journal of Personalized Medicine</i> , 2021, 11, 229.	1.1	87
62	Targeting of heat shock protein 32 (Hsp32)/heme oxygenase-1 (HO-1) in leukemic cells in chronic myeloid leukemia: a novel approach to overcome resistance against imatinib. <i>Blood</i> , 2008, 111, 2200-2210.	0.6	85
63	Augmentation of the Enhanced Permeability and Retention Effect with Nitric Oxide-Generating Agents Improves the Therapeutic Effects of Nanomedicines. <i>Molecular Cancer Therapeutics</i> , 2018, 17, 2643-2653.	1.9	83
64	Tumor-targeted delivery of polyethylene glycol-conjugated D-amino acid oxidase for antitumor therapy via enzymatic generation of hydrogen peroxide. <i>Cancer Research</i> , 2002, 62, 3138-43.	0.4	83
65	Viral mutation accelerated by nitric oxide production during infection <i>in vivo</i> . <i>FASEB Journal</i> , 2000, 14, 1447-1454.	0.2	80
66	Assay of proteolytic enzymes by the fluorescence polarization technique. <i>Analytical Biochemistry</i> , 1979, 92, 222-227.	1.1	75
67	Kallikrein-kinin in infection and cancer. <i>Immunopharmacology</i> , 1999, 43, 115-128.	2.0	75
68	Carbon monoxide, generated by heme oxygenase-1, mediates the enhanced permeability and retention effect in solid tumors. <i>Cancer Science</i> , 2012, 103, 535-541.	1.7	75
69	HPMA Copolymer-Conjugated Pirarubicin in Multimodal Treatment of a Patient with Stage IV Prostate Cancer and Extensive Lung and Bone Metastases. <i>Targeted Oncology</i> , 2016, 11, 101-106.	1.7	75
70	Upregulation of heme oxygenase-1 in colorectal cancer patients with increased circulation carbon monoxide levels, potentially affects chemotherapeutic sensitivity. <i>BMC Cancer</i> , 2014, 14, 436.	1.1	73
71	Potential of Nitric Oxide-Mediated Vasorelaxation by Xanthine Oxidase Inhibitors. <i>Experimental Biology and Medicine</i> , 1996, 211, 366-373.	1.1	72
72	Bradykinin and nitric oxide in infectious disease and cancer. <i>Immunopharmacology</i> , 1996, 33, 222-230.	2.0	70

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73	The Serratia 56K Protease as a Major Pathogenic Factor in Serratia Keratitis. <i>Ophthalmology</i> , 1985, 92, 1452-1459.	2.5	68
74	Activation of blood clotting factors by microbial proteinases. <i>FEMS Microbiology Letters</i> , 1994, 121, 327-332.	0.7	62
75	Modulation of Tumor-selective Vascular Blood Flow and Extravasation by the Stable Prostaglandin I2 Analogue Beraprost Sodium. <i>Journal of Drug Targeting</i> , 2003, 11, 45-52.	2.1	62
76	Nitric Oxide as an Endogenous Mutagen for Sendai Virus without Antiviral Activity. <i>Journal of Virology</i> , 2004, 78, 8709-8719.	1.5	62
77	Micelles of zinc protoporphyrin conjugated to N-(2-hydroxypropyl)methacrylamide (HPMA) copolymer for imaging and light-induced antitumor effects in vivo. <i>Journal of Controlled Release</i> , 2013, 165, 191-198.	4.8	60
78	4-Vinyl-2,6-dimethoxyphenol (canolol) suppresses oxidative stress and gastric carcinogenesis in <i>Helicobacter pylori</i> -infected carcinogen-treated Mongolian gerbils. <i>International Journal of Cancer</i> , 2008, 122, 1445-1454.	2.3	58
79	Nitroglycerin enhances vascular blood flow and drug delivery in hypoxic tumor tissues: Analogy between angina pectoris and solid tumors and enhancement of the EPR effect. <i>Journal of Controlled Release</i> , 2010, 142, 296-298.	4.8	58
80	Dietary lipid peroxidation products and DNA damage in colon carcinogenesis. <i>European Journal of Lipid Science and Technology</i> , 2002, 104, 439-447.	1.0	57
81	Oxystress inducing antitumor therapeutics via tumor-targeted delivery of PEG-conjugated amino acid oxidase. <i>International Journal of Cancer</i> , 2008, 122, 1135-1144.	2.3	57
82	Chemical modification of superoxide dismutase Extension of plasma half life of the enzyme through its reversible binding to the circulating albumin. <i>International Journal of Peptide and Protein Research</i> , 1988, 32, 153-159.	0.1	57
83	Protein Binding of Macromolecular Anticancer Agent SMANCS: Characterization of Poly(styrene-co-maleic acid) Derivatives as an Albumin Binding Ligand. <i>Journal of Bioactive and Compatible Polymers</i> , 1988, 3, 319-333.	0.8	55
84	Superoxide generation mediated by 8-nitroguanosine, a highly redox-active nucleic acid derivative. <i>Biochemical and Biophysical Research Communications</i> , 2003, 311, 300-306.	1.0	53
85	S-Nitrosated Human Serum Albumin Dimer is not only a Novel Anti-Tumor Drug but also a Potentiator for Anti-Tumor Drugs with Augmented EPR Effects. <i>Bioconjugate Chemistry</i> , 2012, 23, 264-271.	1.8	51
86	In vitro and in vivo evaluation of tumor targeting styrene-maleic acid copolymer-pirarubicin micelles: Survival improvement and inhibition of liver metastases. <i>Cancer Science</i> , 2010, 101, 1866-1874.	1.7	49
87	Evidence of Direct Generation of Oxygen Free Radicals from Heterocyclic Amines by NADPH/Cytochrome P-450 Reductase in vitro. <i>Japanese Journal of Cancer Research</i> , 1992, 83, 1204-1209.	1.7	48
88	S-Nitrosated human serum albumin dimer as novel nano-EPR enhancer applied to macromolecular anti-tumor drugs such as micelles and liposomes. <i>Journal of Controlled Release</i> , 2015, 217, 1-9.	4.8	48
89	Tumor-selective Blood Flow Decrease Induced by an Angiotensin Converting Enzyme Inhibitor, Temocapril Hydrochloride. <i>Japanese Journal of Cancer Research</i> , 2000, 91, 261-269.	1.7	47
90	Synthesis and therapeutic effect of styrene-maleic acid copolymer-conjugated pirarubicin. <i>Cancer Science</i> , 2015, 106, 270-278.	1.7	47

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91	Anticancer effects of arterial administration of the anticancer agent SMANCS with lipiodol on metastatic lymph nodes. <i>Cancer</i> , 1987, 59, 1560-1565.	2.0	46
92	Intracellular uptake and behavior of two types zinc protoporphyrin (ZnPP) micelles, SMA-ZnPP and PEG-ZnPP as anticancer agents; unique intracellular disintegration of SMA micelles. <i>Journal of Controlled Release</i> , 2011, 155, 367-375.	4.8	46
93	Augmentation of EPR Effect and Efficacy of Anticancer Nanomedicine by Carbon Monoxide Generating Agents. <i>Pharmaceutics</i> , 2019, 11, 343.	2.0	46
94	Nitric Oxide Generation from Hydroxyurea via Copper-catalyzed Peroxidation and Implications for Pharmacological Actions of Hydroxyurea. <i>Japanese Journal of Cancer Research</i> , 1997, 88, 1199-1204.	1.7	43
95	Identification of heat shock protein 32 (Hsp32) as a novel survival factor and therapeutic target in neoplastic mast cells. <i>Blood</i> , 2007, 110, 661-669.	0.6	43
96	Therapeutic Potential of Pegylated Hemin for Reactive Oxygen Species-Related Diseases via Induction of Heme Oxygenase-1: Results from a Rat Hepatic Ischemia/Reperfusion Injury Model. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2011, 339, 779-789.	1.3	43
97	Comparison between linear and star-like HPMA conjugated pirarubicin (THP) in pharmacokinetics and antitumor activity in tumor bearing mice. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2015, 90, 90-96.	2.0	43
98	Synthesis and evaluation of poly(styrene-co-maleic acid) micellar nanocarriers for the delivery of tanespimycin. <i>International Journal of Pharmaceutics</i> , 2011, 420, 111-117.	2.6	41
99	Styrene Maleic Acid-Pirarubicin Disrupts Tumor Microcirculation and Enhances the Permeability of Colorectal Liver Metastases. <i>Journal of Vascular Research</i> , 2009, 46, 218-228.	0.6	40
100	Enhanced Bacterial Tumor Delivery by Modulating the EPR Effect and Therapeutic Potential of <i>Lactobacillus casei</i> . <i>Journal of Pharmaceutical Sciences</i> , 2014, 103, 3235-3243.	1.6	40
101	Tumor-targeted chemotherapy with SMANCS in lipiodol for renal cell carcinoma: longer survival with larger size tumors. <i>Urology</i> , 2000, 55, 495-500.	0.5	38
102	S-Nitrosylated human β -1-protease inhibitor. <i>BBA - Proteins and Proteomics</i> , 2000, 1477, 90-97.	2.1	37
103	Combined targeting of STAT3 and STAT5: a novel approach to overcome drug resistance in chronic myeloid leukemia. <i>Haematologica</i> , 2017, 102, 1519-1529.	1.7	36
104	N-(2-hydroxypropyl)methacrylamide polymer conjugated pyropheophorbide-a, a promising tumor-targeted theranostic probe for photodynamic therapy and imaging. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2018, 130, 165-176.	2.0	36
105	Free radical generation from heterocyclic amines by cytochrome b5 reductase in the presence of NADH. <i>Cancer Letters</i> , 1999, 143, 117-121.	3.2	35
106	HSP32 (HO-1) inhibitor, copoly(styrene-maleic acid)-zinc protoporphyrin IX, a water-soluble micelle as anticancer agent: In vitro and in vivo anticancer effect. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2012, 81, 540-547.	2.0	34
107	Pronounced Cellular Uptake of Pirarubicin versus That of Other Anthracyclines: Comparison of HPMA Copolymer Conjugates of Pirarubicin and Doxorubicin. <i>Molecular Pharmaceutics</i> , 2016, 13, 4106-4115.	2.3	34
108	pH-sensitive polymeric cisplatin-ion complex with styrene-maleic acid copolymer exhibits tumor-selective drug delivery and antitumor activity as a result of the enhanced permeability and retention effect. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 138, 128-137.	2.5	34

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109	Factors affecting the dynamics and heterogeneity of the EPR effect: pathophysiological and pathoanatomic features, drug formulations and physicochemical factors. <i>Expert Opinion on Drug Delivery</i> , 2022, 19, 199-212.	2.4	33
110	Enhanced Tumor Localization of Monoclonal Antibody by Treatment with Kininase II Inhibitor and Angiotensin II. <i>Japanese Journal of Cancer Research</i> , 1992, 83, 240-243.	1.7	31
111	Formation of abasic sites in DNA by t-butyl peroxy radicals: implication for potent genotoxicity of lipid peroxy radicals. <i>Cancer Letters</i> , 2000, 156, 51-55.	3.2	30
112	Photodynamic therapy and imaging based on tumor-targeted nanoprobe, polymer-conjugated zinc protoporphyrin. <i>Future Science OA</i> , 2015, 1, FSO4.	0.9	30
113	Role of Bradykinin in Microbial Infection: Enhancement of Septicemia by Microbial Proteases and Kininase II. <i>Journal of Cellular Biochemistry</i> , 1993, 42, 159-165.		29
114	SMAA copolymer conjugate of AHPP: A polymeric inhibitor of xanthine oxidase with potential antihypertensive effect. <i>Journal of Controlled Release</i> , 2009, 135, 211-217.	4.8	27
115	Protective effect of canolol from oxidative stress-induced cell damage in ARPE-19 cells via an ERK mediated antioxidative pathway. <i>Molecular Vision</i> , 2011, 17, 2040-8.	1.1	27
116	Lymphotropic accumulation of an antitumor antibiotic protein, neocarzinostatin. <i>European Journal of Cancer</i> , 1980, 16, 723-731.	1.0	26
117	Polymer Conjugation to Cu,Zn-SOD and Suppression of Hydroxyl Radical Generation on Exposure to H ₂ O ₂ : Improved Stability of SOD in Vitro and in Vivo. <i>Journal of Bioactive and Compatible Polymers</i> , 1996, 11, 169-190.	0.8	25
118	Poly(ε-caprolactone)-nitrosated human albumin enhances the antitumor and antimetastasis effect of bevacizumab, partly by inhibiting autophagy through the generation of nitric oxide. <i>Cancer Science</i> , 2015, 106, 194-200.	1.7	24
119	Vascular permeability enhancing activity of Porphyromonas gingivalis protease in guinea pigs. <i>FEMS Microbiology Letters</i> , 1993, 114, 109-114.	0.7	23
120	Styrene-maleic acid-copolymer conjugated zinc protoporphyrin as a candidate drug for tumor-targeted therapy and imaging. <i>Journal of Drug Targeting</i> , 2016, 24, 399-407.	2.1	23
121	Enhanced intestinal absorption of a hydrophobic polymer-conjugated protein drug, smancs, in an oily formulation. <i>Pharmaceutical Research</i> , 1990, 07, 852-855.	1.7	22
122	Phosphorylcholine-Grafted Molecular Bottlebrush Doxorubicin Conjugates: High Structural Stability, Long Circulation in Blood, and Efficient Anticancer Activity. <i>Biomacromolecules</i> , 2021, 22, 1186-1196.	2.6	22
123	Protective Role of D-Amino Acid Oxidase against Staphylococcus aureus Infection. <i>Infection and Immunity</i> , 2012, 80, 1546-1553.	1.0	21
124	Effect of different chemical bonds in pegylation of zinc protoporphyrin that affects drug release, intracellular uptake, and therapeutic effect in the tumor. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2015, 89, 259-270.	2.0	21
125	Polymer-conjugated glucosamine complexed with boric acid shows tumor-selective accumulation and simultaneous inhibition of glycolysis. <i>Biomaterials</i> , 2021, 269, 120631.	5.7	21
126	Metamorphosis of Neocarzinostatin to SMANCS: Chemistry, Biology, Pharmacology, and Clinical Effect of the First Prototype Anticancer Polymer Therapeutic. <i>Journal of Pharmaceutical Sciences</i> , 1997, 86, 227-267.		20

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127	Targeting Chemotherapy of Hepatocellular Carcinoma. , 1987, , 343-352.		20
128	Targeting of heat-shock protein 32/heme oxygenase-1 in canine mastocytoma cells is associated with reduced growth and induction of apoptosis. <i>Experimental Hematology</i> , 2008, 36, 1461-1470.	0.2	19
129	Research Spotlight: Emergence of EPR effect theory and development of clinical applications for cancer therapy. <i>Therapeutic Delivery</i> , 2014, 5, 627-630.	1.2	19
130	Water soluble PEG-conjugate of xanthine oxidase inhibitor, PEG- α -AHPP micelles, as a novel therapeutic for ROS related inflammatory bowel diseases. <i>Journal of Controlled Release</i> , 2016, 223, 188-196.	4.8	19
131	Pathophysiological Effects of High-Output Production of Nitric Oxide. , 2000, , 733-745.		19
132	Identification of heat shock protein 32 (Hsp32) as a novel target in acute lymphoblastic leukemia. <i>Oncotarget</i> , 2014, 5, 1198-1211.	0.8	19
133	Superior Penetration and Cytotoxicity of HPMA Copolymer Conjugates of Pirarubicin in Tumor Cell Spheroid. <i>Molecular Pharmaceutics</i> , 2019, 16, 3452-3459.	2.3	17
134	Singlet oxygen phosphorescence detection in vivo identifies PDT-induced anoxia in solid tumors. <i>Photochemical and Photobiological Sciences</i> , 2019, 18, 1304-1314.	1.6	17
135	Tumor-targeted chemotherapy with lipid contrast medium and macromolecular anticancer drug (SMANCS) for renal cell carcinoma. <i>Urology</i> , 1991, 37, 288-294.	0.5	16
136	Generation of drug-resistant mutants of <i>Helicobacter pylori</i> in the presence of peroxyxynitrite, a derivative of nitric oxide, at pathophysiological concentration. <i>Microbiology and Immunology</i> , 2009, 53, 1-7.	0.7	15
137	Tissue protective effect of xanthine oxidase inhibitor, polymer conjugate of (styrene- α -maleic acid) Tj ETQq1 1 0.784314 rgBT /Overlock 15 injury. <i>Experimental Biology and Medicine</i> , 2010, 235, 487-496.	1.1	15
138	Comparison of the pharmacological and biological properties of HPMA copolymer-pirarubicin conjugates: A single-chain copolymer conjugate and its biodegradable tandem-diblock copolymer conjugate. <i>European Journal of Pharmaceutical Sciences</i> , 2017, 106, 10-19.	1.9	15
139	Extracts of <i>Phellinus linteus</i> , Bamboo (<i>Sasa senanensis</i>) Leaf and Chaga Mushroom (<i>Inonotus</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 15	1.7	15
140	Tumor-Targeted Macromolecular Drug Delivery Based on the Enhanced Permeability and Retention Effect in Solid Tumor. , 2009, , 93-120.		14
141	HPMA copolymer conjugate with pirarubicin: In vitro and ex vivo stability and drug release study. <i>International Journal of Pharmaceutics</i> , 2018, 536, 108-115.	2.6	14
142	EPR-Effect Enhancers Strongly Potentiate Tumor-Targeted Delivery of Nanomedicines to Advanced Cancers: Further Extension to Enhancement of the Therapeutic Effect. <i>Journal of Personalized Medicine</i> , 2021, 11, 487.	1.1	14
143	Changes in the Microvascular Architecture of Colorectal Liver Metastases Following the Administration of SMANCS/Lipiodol. <i>Journal of Surgical Research</i> , 2002, 103, 47-54.	0.8	13
144	Enhancement of Tumor-Targeted Delivery of Bacteria with Nitroglycerin Involving Augmentation of the EPR Effect. <i>Methods in Molecular Biology</i> , 2016, 1409, 9-23.	0.4	12

#	ARTICLE	IF	CITATIONS
145	Stimulation of non-specific resistance to tumors in the mouse using a poly(maleic-acid-styrene)-conjugated neocarzinostatin. <i>Cancer Immunology, Immunotherapy</i> , 1989, 30, 97-104.	2.0	11
146	Synthesis and evaluation of styrene-maleic acid copolymer conjugated amphotericin B. <i>International Journal of Pharmaceutics</i> , 2019, 572, 118719.	2.6	11
147	Development of an amphotericin B micellar formulation using cholesterol-conjugated styrene-maleic acid copolymer for enhancement of blood circulation and antifungal selectivity. <i>International Journal of Pharmaceutics</i> , 2020, 589, 119813.	2.6	10
148	Enhancement by Verapamil of Neocarzinostatin Action on Multidrug-resistant Chinese Hamster Ovary Cells: Possible Release of Nonprotein Chromophore in Cells. <i>Japanese Journal of Cancer Research</i> , 1991, 82, 351-356.	1.7	9
149	PEGylated d-amino acid oxidase restores bactericidal activity of neutrophils in chronic granulomatous disease via hypochlorite. <i>Experimental Biology and Medicine</i> , 2012, 237, 703-708.	1.1	7
150	Overcoming barriers for tumor-targeted drug delivery. , 2020, , 41-58.		7
151	Unraveling the role of Intralipid in suppressing off-target delivery and augmenting the therapeutic effects of anticancer nanomedicines. <i>Acta Biomaterialia</i> , 2021, 126, 372-383.	4.1	7
152	Controlling oxidative stress: therapeutic and delivery strategies. <i>Advanced Drug Delivery Reviews</i> , 2009, 61, 285-286.	6.6	6
153	Development of a Selective Tumor-Targeted Drug Delivery System: Hydroxypropyl-Acrylamide Polymer-Conjugated Pirarubicin (P-THP) for Pediatric Solid Tumors. <i>Cancers</i> , 2021, 13, 3698.	1.7	5
154	4-Amino-6-hydroxypyrazolo [3,4-d]pyrimidine (AHPP) conjugated PEG micelles: Water soluble polymeric xanthine oxidase inhibitor. <i>Journal of Drug Targeting</i> , 2011, 19, 954-966.	2.1	4
155	Treatment with Polyethylene Glycol-Conjugated Fungal d-Amino Acid Oxidase Reduces Lung Inflammation in a Mouse Model of Chronic Granulomatous Disease. <i>Inflammation</i> , 2022, 45, 1668-1679.	1.7	4
156	Weak Interplay between Hydrophobic Part of Water-soluble Polymers and Serum Protein. <i>Chemistry Letters</i> , 2021, 50, 1392-1393.	0.7	3
157	Styrene maleic acid copolymer-pirarubicin induces tumor-selective oxidative stress and decreases tumor hypoxia as possible treatment of colorectal cancer liver metastases. <i>Surgery</i> , 2015, 158, 236-247.	1.0	2
158	Quantification, Isolation and Structural Determination of Bradykinin and Hydroxypropyl-Bradykinin in Tumor Ascites. <i>Advances in Experimental Medicine and Biology</i> , 1989, 247A, 587-592.	0.8	2
159	The EPR effect: its history, development and future implication. <i>Drug Delivery System</i> , 2018, 33, 80-88.	0.0	1
160	ç™Œç”ç©¶ã«ãšãã,ã†ãç”Ÿç%©ã-ãf’ãf©ãf€ã,ãfãè. æ,©. Kagaku To Seibutsu, 2017, 55, 501-509.	0.0	0