

Rayhanul Islam

List of Publications by Year in descending order

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77
papers

13,927
citations

76326

40
h-index

79698

73
g-index

80
all docs

80
docs citations

80
times ranked

16818
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.	13.7	3,020
2	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.	13.7	934
3	Tumor-Selective Delivery of Macromolecular Drugs via the EPR Effect: Background and Future Prospects. <i>Bioconjugate Chemistry</i> , 2010, 21, 797-802.	3.6	874
4	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.	9.9	861
5	Macromolecular therapeutics in cancer treatment: The EPR effect and beyond. <i>Journal of Controlled Release</i> , 2012, 164, 138-144.	9.9	705
6	SMANCS and polymer-conjugated macromolecular drugs: advantages in cancer chemotherapy. <i>Advanced Drug Delivery Reviews</i> , 2001, 46, 169-185.	13.7	514
7	Therapeutic strategies by modulating oxygen stress in cancer and inflammation. <i>Advanced Drug Delivery Reviews</i> , 2009, 61, 290-302.	13.7	476
8	Vascular permeability enhancement in solid tumor: various factors, mechanisms involved and its implications. <i>International Immunopharmacology</i> , 2003, 3, 319-328.	3.8	462
9	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
10	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.	13.7	410
11	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.	4.0	337
12	Alkylperoxyl Radical-Scavenging Activity of Various Flavonoids and Other Phenolic Compounds: Implications for the Anti-Tumor-Promoter Effect of Vegetables. <i>Journal of Agricultural and Food Chemistry</i> , 1999, 47, 397-402.	5.2	293
13	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.	1.8	273
14	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.	3.8	233
15	SMA-doxorubicin, a new polymeric micellar drug for effective targeting to solid tumours. <i>Journal of Controlled Release</i> , 2004, 97, 219-230.	9.9	173
16	Enhanced delivery of macromolecular antitumor drugs to tumors by nitroglycerin application. <i>Cancer Science</i> , 2009, 100, 2426-2430.	3.9	171
17	In vivo antitumor activity of pegylated zinc protoporphyrin: targeted inhibition of heme oxygenase in solid tumor. <i>Cancer Research</i> , 2003, 63, 3567-74.	0.9	166
18	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.	1.3	156

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19	The link between infection and cancer: Tumor vasculature, free radicals, and drug delivery to tumors via the <sc>EPR</sc> effect. <i>Cancer Science</i> , 2013, 104, 779-789.	3.9	143
20	Polymer therapeutics and the EPR effect. <i>Journal of Drug Targeting</i> , 2017, 25, 781-785.	4.4	117
21	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
22	Copoly(styrene-maleic acid)~Pirarubicin Micelles:~% High Tumor-Targeting Efficiency with Little Toxicity1. <i>Bioconjugate Chemistry</i> , 2005, 16, 230-236.	3.6	100
23	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.	4.4	99
24	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.	9.9	98
25	High-loading nanosized micelles of copoly(styrene~maleic acid)~zinc protoporphyrin for targeted delivery of a potent heme oxygenase inhibitor. <i>Biomaterials</i> , 2007, 28, 1871-1881.	11.4	91
26	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.	9.9	90
27	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.	2.5	87
28	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.	4.1	83
29	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.	3.9	75
30	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.	3.6	75
31	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.	2.6	73
32	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.	9.9	60
33	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.	9.9	58
34	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.	9.9	48
35	Synthesis and therapeutic effect of styrene~maleic acid copolymer~conjugated pirarubicin. <i>Cancer Science</i> , 2015, 106, 270-278.	3.9	47
36	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.	9.9	46

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37	Augmentation of EPR Effect and Efficacy of Anticancer Nanomedicine by Carbon Monoxide Generating Agents. <i>Pharmaceutics</i> , 2019, 11, 343.	4.5	46
38	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.	2.5	43
39	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.	3.3	40
40	Protection from inflammatory bowel disease and colitis-associated carcinogenesis with 4-vinyl-2,6-dimethoxyphenol (canolol) involves suppression of oxidative stress and inflammatory cytokines. <i>Carcinogenesis</i> , 2013, 34, 2833-2841.	2.8	39
41	Immunostimulation-Mediated Anti-Tumor Activity of Bamboo (<i>Sasa senanensis</i>) Leaf Extracts Obtained under "Vigorous" Condition. <i>Evidence-based Complementary and Alternative Medicine</i> , 2010, 7, 447-457.	1.2	37
42	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.	4.3	36
43	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.	4.3	34
44	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.	4.6	34
45	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.	5.0	34
46	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.	5.0	33
47	Photodynamic therapy and imaging based on tumor-targeted nanoprobe, polymer-conjugated zinc protoporphyrin. <i>Future Science OA</i> , 2015, 1, FSO4.	1.9	30
48	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
49	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.	4.4	23
50	Phosphorylcholine-Grafted Molecular Bottlebrush" Doxorubicin Conjugates: High Structural Stability, Long Circulation in Blood, and Efficient Anticancer Activity. <i>Biomacromolecules</i> , 2021, 22, 1186-1196.	5.4	22
51	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.	4.3	21
52	Polymer-conjugated glucosamine complexed with boric acid shows tumor-selective accumulation and simultaneous inhibition of glycolysis. <i>Biomaterials</i> , 2021, 269, 120631.	11.4	21
53	Highly effective anti-tumor nanomedicines based on HPMA copolymer conjugates with pirarubicin prepared by controlled RAFT polymerization. <i>Acta Biomaterialia</i> , 2020, 106, 256-266.	8.3	20
54	Direct Evidence of in Vivo Nitric Oxide Production and Inducible Nitric Oxide Synthase mRNA Expression in the Brain of Living Rat during Experimental Meningitis. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1999, 19, 1175-1178.	4.3	19

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55	Water soluble PEG-conjugate of xanthine oxidase inhibitor, PEG-AHPP micelles, as a novel therapeutic for ROS related inflammatory bowel diseases. <i>Journal of Controlled Release</i> , 2016, 223, 188-196.	9.9	19
56	Singlet oxygen phosphorescence detection in vivo identifies PDT-induced anoxia in solid tumors. <i>Photochemical and Photobiological Sciences</i> , 2019, 18, 1304-1314.	2.9	17
57	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.	4.0	15
58	Extracts of <i>Phellinus linteus</i> , Bamboo (<i>Sasa senanensis</i>) Leaf and Chaga Mushroom (<i>Inonotus</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622	4.1	15
59	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.	5.2	14
60	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.	2.5	14
61	Tumor Environment-Responsive Hyaluronan Conjugated Zinc Protoporphyrin for Targeted Anticancer Photodynamic Therapy. <i>Journal of Personalized Medicine</i> , 2021, 11, 136.	2.5	9
62	ON THE TRYPTOPHAN CONTENT OF NEOCARZINOSTATIN. <i>International Journal of Protein Research</i> , 1970, 2, 135-136.	0.6	8
63	Overcoming barriers for tumor-targeted drug delivery. , 2020, , 41-58.		7
64	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.	8.3	7
65	Styrene Maleic Acid Copolymer-Based Micellar Formation of Temoporfin (SMA@ mTHPC) Behaves as A Nanoprobe for Tumor-Targeted Photodynamic Therapy with A Superior Safety. <i>Biomedicines</i> , 2021, 9, 1493.	3.2	7
66	Singlet Oxygen In Vivo: It Is All about Intensity. <i>Journal of Personalized Medicine</i> , 2022, 12, 891.	2.5	4
67	Weak Interplay between Hydrophobic Part of Water-soluble Polymers and Serum Protein. <i>Chemistry Letters</i> , 2021, 50, 1392-1393.	1.3	3
68	Polymers and polymeric hybrids for targeted drug delivery. , 2022, , 303-322.		2
69	Expression Dynamics of Heme Oxygenase-1 in Tumor Cells and the Host Contributes to the Progression of Tumors. <i>Journal of Personalized Medicine</i> , 2021, 11, 1340.	2.5	2
70	The EPR effect: its history, development and future implication. <i>Drug Delivery System</i> , 2018, 33, 80-88.	0.0	1
71	The Heme Oxygenase-1-Targeting Compound PEG-ZnPP Inhibits Growth of Imatinib-Resistant BCR/ABL-Transformed Cells.. <i>Blood</i> , 2004, 104, 1986-1986.	1.4	1
72	Heme Oxygenase-1 (HO-1): A Novel KIT D816V-Dependent Target in Neoplastic Human Mast Cells (HMC-1).. <i>Blood</i> , 2005, 106, 3521-3521.	1.4	1

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73	Heme Oxygenase-1 (HO-1)/Heat Shock Protein 32 (Hsp32) as a Novel Survival Factor and Target in AML.. Blood, 2006, 108, 1901-1901.	1.4	1
74	Styrene Maleic Acid Copolymer-Based Micellar Formation of Temoporfin (SMA@ mTHPC) Behaves as A Nanoprobe for Tumor-Targeted Photodynamic Therapy with A Superior Safety. Biomedicines, 2021, 9, .	3.2	1
75	Generation of Lipid Peroxyl Radicals from Oxidized Edible Oils and Heme-Iron: Suppression of DNA Damage by Unrefined Oils and Vegetable Extracts. ACS Symposium Series, 2002, , 282-300.	0.5	0
76	Tumor Stimulus-Responsive Biodegradable Diblock Copolymer Conjugates as Efficient Anti-Cancer Nanomedicines. Journal of Personalized Medicine, 2022, 12, 698.	2.5	0
77	Effect of Tumor Targeted-Anthracycline Nanomedicine, HPMA Copolymer-Conjugated Pirarubicin (P-THP) against Gynecological Malignancies. Journal of Personalized Medicine, 2022, 12, 814.	2.5	0