Vladimir Subr

List of Publications by Year
in descending order

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79 papers	5,915 citations	87723 38 h-index	71532 76 g-index
80 all docs	80 docs citations	80 times ranked	8465 citing authors

#	Article	IF	Citations
1	Targeted Drug Delivery with Polymers and Magnetic Nanoparticles: Covalent and Noncovalent Approaches, Release Control, and Clinical Studies. Chemical Reviews, 2016, 116, 5338-5431.	23.0	1,333
2	Polymeric anticancer drugs with pH-controlled activation. Advanced Drug Delivery Reviews, 2004, 56, 1023-1050.	6.6	464
3	Behavior of Surface-Anchored Poly(acrylic acid) Brushes with Grafting Density Gradients on Solid Substrates:â€‰ 1. Experiment. Macromolecules, 2007, 40, 8756-8764.	2.2	252
4	Simultaneous delivery of doxorubicin and gemcitabine to tumors in vivo using prototypic polymeric drug carriers. Biomaterials, 2009, 30, 3466-3475.	5.7	219
5	Formation and Properties of Anchored Polymers with a Gradual Variation of Grafting Densities on Flat Substrates. Macromolecules, 2003, 36, 2448-2453.	2.2	190
6	Polymer Brushes Showing Nonâ€Fouling in Blood Plasma Challenge the Currently Accepted Design of Protein Resistant Surfaces. Macromolecular Rapid Communications, 2011, 32, 952-957.	2.0	184
7	Human erythrocytes bind and inactivate type 5 adenovirus by presenting Coxsackie virus-adenovirus receptor and complement receptor 1. Blood, 2009, 113, 1909-1918.	0.6	183
8	Structural and chemical aspects of HPMA copolymers as drug carriersâ˜†. Advanced Drug Delivery Reviews, 2010, 62, 150-166.	6.6	177
9	Decreased Binding to Proteins and Cells of Polymeric Gene Delivery Vectors Surface Modified with a Multivalent Hydrophilic Polymer and Retargeting through Attachment of Transferrin. Journal of Biological Chemistry, 2000, 275, 3793-3802.	1.6	148
10	Polymeric nanomedicines for image-guided drug delivery and tumor-targeted combination therapy. Nano Today, 2010, 5, 197-212.	6.2	126
11	Effect of physicochemical modification on the biodistribution and tumor accumulation of HPMA copolymers. Journal of Controlled Release, 2005, 110, 103-118.	4.8	125
12	N-(2-Hydroxypropyl)methacrylamide-based polymer conjugates with pH-controlled activation of doxorubicin for cell-specific or passive tumour targeting. Synthesis by RAFT polymerisation and physicochemical characterisation. European Journal of Pharmaceutical Sciences, 2010, 41, 473-482.	1.9	120
13	HPMA copolymer-doxorubicin conjugates: The effects of molecular weight and architecture on biodistribution and in vivo activity. Journal of Controlled Release, 2012, 164, 346-354.	4.8	116
14	Effect of radiotherapy and hyperthermia on the tumor accumulation of HPMA copolymer-based drug delivery systems. Journal of Controlled Release, 2007, 117, 333-341.	4.8	109
15	In vivo nanotoxicity testing using the zebrafish embryo assay. Journal of Materials Chemistry B, 2013, 1, 3918.	2.9	104
16	Effect of Intratumoral Injection on the Biodistribution, the Therapeutic Potential of HPMA Copolymer-Based Drug Delivery Systems. Neoplasia, 2006, 8, 788-795.	2.3	103
17	Enhanced Tumor Uptake and Penetration of Virotherapy Using Polymer Stealthing and Focused Ultrasound. Journal of the National Cancer Institute, 2013, 105, 1701-1710.	3.0	98
18	Poly(ethylene glycol) Multiblock Copolymer as a Carrier of Anti-Cancer Drug Doxorubicin. Bioconjugate Chemistry, 2000, 11, 131-139.	1.8	96

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19	MCC950/CRID3 potently targets the NACHT domain of wild-type NLRP3 but not disease-associated mutants for inflammasome inhibition. PLoS Biology, 2019, 17, e3000354.	2.6	94
20	Augmentation of the Enhanced Permeability and Retention Effect with Nitric Oxideâ€“Generating Agents Improves the Therapeutic Effects of Nanomedicines. Molecular Cancer Therapeutics, 2018, 17, 2643-2653.	1.9	83
21	Virotherapy of Ovarian Cancer With Polymer-cloaked Adenovirus Retargeted to the Epidermal Growth Factor Receptor. Molecular Therapy, 2008, 16, 244-251.	3.7	81
22	Macromolecular prodrugs for use in targeted cancer chemotherapy: melphalan covalently coupled to N- (2-hydroxypropyl) methacrylamide copolymers. Journal of Controlled Release, 1991, 16, 121-136.	4.8	65
23	Polymer conjugates of doxorubicin bound through an amide and hydrazone bond: Impact of the carrier structure onto synergistic action in the treatment of solid tumours. European Journal of Pharmaceutical Sciences, 2014, 58, 1-12.	1.9	65
24	Cytostatic and immunomobilizing activities of polymer-bound drugs: experimental and first clinical data. Journal of Controlled Release, 2003, 91, 1-16.	4.8	64
25	Coating of DNA/Poly(l-lysine) Complexes by Covalent Attachment of Poly[N-(2-hydroxypropyl)methacrylamide]. Biomacromolecules, 2006, 7, 122-130.	2.6	62
26	Micelles of zinc protoporphyrin conjugated to N-(2-hydroxypropyl)methacrylamide (HPMA) copolymer for imaging and light-induced antitumor effects in vivo. Journal of Controlled Release, 2013, 165, 191-198.	4.8	60
27	Treatment with HPMA copolymer-based doxorubicin conjugate containing human immunoglobulin induces long-lasting systemic anti-tumour immunity in mice. Cancer Immunology, Immunotherapy, 2006, 56, 35-47.	2.0	57
28	Coating of adenoâ€associated virus with reactive polymers can ablate virus tropism, enable retargeting and provide resistance to neutralising antisera. Journal of Gene Medicine, 2008, 10, 400-411.	1.4	55
29	Retargeting polymerâ€coated adenovirus to the FGF receptor allows productive infection and mediates efficacy in a peritoneal model of human ovarian cancer. Journal of Gene Medicine, 2008, 10, 280-289.	1.4	52
30	Coating of adenovirus type 5 with polymers containing quaternary amines prevents binding to blood components. Journal of Controlled Release, 2009, 135, 152-158.	4.8	52
31	Low Temperature Aqueous Living/Controlled (RAFT) Polymerization of Carboxybetaine Methacrylamide up to High Molecular Weights. Macromolecular Rapid Communications, 2011, 32, 958-965.	2.0	52
32	Tumour necrosis factor-alpha increases extravasation of virus particles into tumour tissue by activating the Rho A/Rho kinase pathway. Journal of Controlled Release, 2011, 156, 381-389.	4.8	49
33	Augmentation of EPR Effect and Efficacy of Anticancer Nanomedicine by Carbon Monoxide Generating Agents. Pharmaceutics, 2019, 11, 343.	2.0	46
34	Passive tumour targeting of polymer-coated adenovirus for cancer gene therapy. Journal of Drug Targeting, 2007, 15, 546-551.	2.1	45
35	Overcoming multidrug resistance via simultaneous delivery of cytostatic drug and P-glycoprotein inhibitor to cancer cells by HPMA copolymer conjugate. Biomaterials, 2017, 115, 65-80.	5.7	43
36	Spectral analysis of doxorubicin accumulation and the indirect quantification of its DNA intercalation. European Journal of Pharmaceutics and Biopharmaceutics, 2010, 76, 514-524.	2.0	42

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37	Polycationic Graft Copolymers as Carriers for Oligonucleotide Delivery. Complexes of Oligonucleotides with Polycationic Graft Copolymers. Langmuir, 2001, 17, 3096-3102.	1.6	39
38	Synthetic Polymers Conjugated to Monoclonal Antibodies: Vehicles for Tumour-Targeted Drug Delivery. Selective Cancer Therapeutics, 1991, 7, 59-73.	0.5	38
39	Synthesis and Characterization of HE-24.8:Â A Polymeric Contrast Agent for Magnetic Resonance Angiography. Bioconjugate Chemistry, 2006, 17, 42-51.	1.8	38
40	N-(2-hydroxypropyl)methacrylamide polymer conjugated pyropheophorbide-a, a promising tumor-targeted theranostic probe for photodynamic therapy and imaging. European Journal of Pharmaceutics and Biopharmaceutics, 2018, 130, 165-176.	2.0	36
41	HPMA based macromolecular therapeutics: Internalization, intracellular pathway and cell death depend on the character of covalent bond between the drug and the peptidic spacer and also on spacer composition. Journal of Drug Targeting, 2006, 14, 391-403.	2.1	35
42	HPMA-based star polymer biomaterials with tuneable structure and biodegradability tailored for advanced drug delivery to solid tumours. Biomaterials, 2020, 235, 119728.	5.7	33
43	Photodynamic therapy and imaging based on tumor-targeted nanoprobe, polymer-conjugated zinc protoporphyrin. Future Science OA, 2015, 1, FSO4.	0.9	30
44	Overcoming multidrug resistance in Dox-resistant neuroblastoma cell lines via treatment with HPMA copolymer conjugates containing anthracyclines and P-gp inhibitors. Journal of Controlled Release, 2016, 233, 136-146.	4.8	30
45	Targeting adenovirus gene delivery to activated tumour-associated vasculature via endothelial selectins. Journal of Controlled Release, 2011, 150, 196-203.	4.8	29
46	Traceless Bioresponsive Shielding of Adenovirus Hexon with HPMA Copolymers Maintains Transduction Capacity In Vitro and In Vivo. PLoS ONE, 2014, 9, e82716.	1.1	27
47	Coating of Vesicles with Hydrophilic Reactive Polymers. Langmuir, 2008, 24, 7092-7098.	1.6	26
48	Evaluation of protein-N-(2-hydroxypropyl) methacrylamide copolymer conjugates as targetable drug-carriers. 2. Body distribution of conjugates containing transferrin, antitransferrin receptor antibody or anti-Thy 1.2 antibody and effectiveness of transferrin-containing daunomycin conjugates against mouse L1210 leukaemia in vivo. Journal of Controlled Release, 1992, 18, 25-37.	4.8	25
49	Tropism ablation and stealthing of oncolytic adenovirus enhances systemic delivery to tumors and improves virotherapy of cancer. Nanomedicine, 2012, 7, 1683-1695.	1.7	23
50	N-(2-Hydroxypropyl)methacrylamide-Based Linear, Diblock, and Starlike Polymer Drug Carriers: Advanced Process for Their Simple Production. Biomacromolecules, 2018, 19, 4003-4013.	2.6	22
51	Inhibitor-Decorated Polymer Conjugates Targeting Fibroblast Activation Protein. Journal of Medicinal Chemistry, 2017, 60, 8385-8393.	2.9	21
52	Detection and cellular localisation of the synthetic soluble macromolecular drug carrier pHPMA. European Journal of Nuclear Medicine and Molecular Imaging, 2002, 29, 1055-1062.	3.3	20
53	High-molecular-weight Polymers Containing Biodegradable Disulfide Bonds: Synthesis and In Vitro Verification of Intracellular Degradation. Journal of Bioactive and Compatible Polymers, 2010, 25, 5-26.	0.8	19
54	Doxorubicin attached to HPMA copolymer via amide bond modifies the glycosylation pattern of EL4 cells. Tumor Biology, 2010, 31, 233-242.	0.8	18

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55	HPMA-based polymer therapeutics improve the efficacy of surgery, of radiotherapy and of chemotherapy combinations. Nanomedicine, 2010, 5, 1501-1523.	1.7	18
56	Singlet oxygen phosphorescence detection in vivo identifies PDT-induced anoxia in solid tumors. Photochemical and Photobiological Sciences, 2019, 18, 1304-1314.	1.6	17
57	Polymeric carriers of drugs for siteâ€specific therapy. Macromolecular Symposia, 1997, 118, 577-585.	0.4	15
58	Poly[N-(2-hydroxypropyl)meth-acrylamide] Conjugates of Bovine Seminal Ribonuclease. Synthesis, Physicochemical, and Preliminary Biological Evaluation. Journal of Bioactive and Compatible Polymers, 2000, 15, 4-26.	0.8	15
59	Removable Nanocoatings for siRNA Polyplexes. Bioconjugate Chemistry, 2011, 22, 169-179.	1.8	12
60	Polymer-ritonavir derivate nanomedicine with pH-sensitive activation possesses potent anti-tumor activity in vivo via inhibition of proteasome and STAT3 signaling. Journal of Controlled Release, 2021, 332, 563-580.	4.8	11
61	Coating of nanoparticles bearing amino groups on the surface with hydrophilic HPMA-based polymers. Colloid and Polymer Science, 2007, 285, 1509-1514.	1.0	10
62	E-selectin is a viable route of infection for polymer-coated adenovirus retargeting in TNF-Î±-activated human umbilical vein endothelial cells. Journal of Drug Targeting, 2011, 19, 690-700.	2.1	10
63	Inhibitorâ€“Polymer Conjugates as a Versatile Tool for Detection and Visualization of Cancer-Associated Carbonic Anhydrase Isoforms. ACS Omega, 2019, 4, 6746-6756.	1.6	10
64	Identification of Protein Targets of Bioactive Small Molecules Using Randomly Photomodified Probes. ACS Chemical Biology, 2018, 13, 3333-3342.	1.6	9
65	Poly[N-(2-Hydroypropyl)Methacrylamide] Conjugates of Bovine Seminal Ribonuclease. Synthesis, Physicochemical, and Preliminary Biological Evaluation. Journal of Bioactive and Compatible Polymers, 2000, 15, 4-26.	0.8	8
66	Unraveling the role of Intralipid in suppressing off-target delivery and augmenting the therapeutic effects of anticancer nanomedicines. Acta Biomaterialia, 2021, 126, 372-383.	4.1	7
67	New, Hydrophilic, HPMAâ€Based Polymers for Bioresponsive Shielding of Geneâ€Delivery Vectors. Macromolecular Chemistry and Physics, 2009, 210, 1138-1148.	1.1	6
68	Tris-(Nitrilotriacetic Acid)-Decorated Polymer Conjugates as Tools for Immobilization and Visualization of His-Tagged Proteins. Catalysts, 2019, 9, 1011.	1.6	6
69	Investigation of Nanoparticle Coating by Fluorescence Correlation Spectroscopy. Macromolecular Chemistry and Physics, 2008, 209, 1447-1453.	1.1	5
70	Polymer inhibitors of ABC transporter overcoming multidrug resistance: Synthesis, characterization and in vitro evaluation. Journal of Controlled Release, 2015, 213, e107-e108.	4.8	5
71	Polymeric Conjugates of 9-[2-(Phosphonomethoxy)ethyl]purine with Potential Antiviral and Cytostatic Activity. Collection of Czechoslovak Chemical Communications, 2006, 71, 1211-1220.	1.0	4
72	Singlet Oxygen In Vivo: It Is All about Intensity. Journal of Personalized Medicine, 2022, 12, 891.	1.1	4

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73	Chemical Conjugation of Cowpea Mosaic Viruses with Reactive HPMA-Based Polymers. Journal of Biomaterials Science, Polymer Edition, 2010, 21, 1669-1685.	1.9	3
74	The role of the biotin linker in polymer antibody mimetics, iBodies, in biochemical assays. Polymer Chemistry, 2021, 12, 6009-6021.	1.9	3
75	The development of a high-affinity conformation-sensitive antibody mimetic using a biocompatible copolymer carrier (iBody). Journal of Biological Chemistry, 2021, 297, 101342.	1.6	2
76	Longâ€Circulating and Passively Tumorâ€Targeted Polymerâ€Drug Conjugates Improve the Efficacy and Reduce the Toxicity of Radiochemotherapy. Advanced Engineering Materials, 2010, 12, B413.	1.6	1
77	Tumor Stimulus-Responsive Biodegradable Diblock Copolymer Conjugates as Efficient Anti-Cancer Nanomedicines. Journal of Personalized Medicine, 2022, 12, 698.	1.1	0
78	Simultaneous Delivery of Doxorubicin and Protease Inhibitor Derivative to Solid Tumors via Star-Shaped Polymer Nanomedicines Overcomes P-gp- and STAT3-Mediated Chemoresistance. Biomacromolecules, 2022, 23, 2522-2535.	2.6	0
79	Metastatic spread inhibition of cancer cells through stimuli-sensitive HPMA copolymer-bound actinonin nanomedicines. Nanomedicine: Nanotechnology, Biology, and Medicine, 2022, 44, 102578.	1.7	0