

Vibhudutta Awasthi

List of Publications by Year in descending order

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82
papers

1,723
citations

304743

22
h-index

315739

38
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84
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84
docs citations

84
times ranked

2243
citing authors

#	ARTICLE	IF	CITATIONS
1	Biodegradable Polymeric Nanoparticles for Drug Delivery to Solid Tumors. <i>Frontiers in Pharmacology</i> , 2021, 12, 601626.	3.5	257
2	Surface Engineering of Liposomes for Stealth Behavior. <i>Pharmaceutics</i> , 2013, 5, 542-569.	4.5	235
3	CLEFMA—An anti-proliferative curcuminoid from structure—activity relationship studies on 3,5-bis(benzylidene)-4-piperidones. <i>Bioorganic and Medicinal Chemistry</i> , 2010, 18, 6109-6120.	3.0	79
4	Impact of Curcumin, Raspberry Extract, and Neem Leaf Extract on Rel Protein-Regulated Cell Death/Radiosensitization in Pancreatic Cancer Cells. <i>Pancreas</i> , 2011, 40, 1107-1119.	1.1	54
5	Post-modification of preformed liposomes with novel non-phospholipid poly(ethylene Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 58 persistence in vivo. <i>International Journal of Pharmaceutics</i> , 2013, 446, 119-129.	5.2	42
6	Cerebral oxygen delivery by liposome-encapsulated hemoglobin: a positron-emission tomographic evaluation in a rat model of hemorrhagic shock. <i>Journal of Applied Physiology</i> , 2007, 103, 28-38.	2.5	41
7	Biodistribution of Radioiodinated Adenovirus Fiber Protein Knob Domain after Intravenous Injection in Mice. <i>Journal of Virology</i> , 2004, 78, 6431-6438.	3.4	37
8	Synthesis and structural determination of 3,5-bis(2-fluorobenzylidene)-4-piperidone analogs of curcumin. <i>Journal of Molecular Structure</i> , 2009, 936, 23-28.	3.6	35
9	Efficacy of Antigen 2/Proline-Rich Antigen cDNA-Transfected Dendritic Cells in Immunization of Mice against <i>Coccidioides posadasii</i> . <i>Journal of Immunology</i> , 2005, 175, 3900-3906.	0.8	34
10	Improved formulation of liposome-encapsulated hemoglobin with an anionic non-phospholipid. <i>Colloids and Surfaces B: Biointerfaces</i> , 2010, 75, 573-583.	5.0	34
11	Synthesis and In Vivo Evaluation of ¹⁸ F-Fluorohippurate as a New Radiopharmaceutical for Assessment of Renal Function by PET. <i>Journal of Nuclear Medicine</i> , 2011, 52, 147-153.	5.0	34
12	EF24 suppresses maturation and inflammatory response in dendritic cells. <i>International Immunology</i> , 2012, 24, 455-464.	4.0	33
13	Blast Overpressure Waves Induce Transient Anxiety and Regional Changes in Cerebral Glucose Metabolism and Delayed Hyperarousal in Rats. <i>Frontiers in Neurology</i> , 2015, 6, 132.	2.4	31
14	Cyclodextrin-mediated entrapment of curcuminoid 4-[3,5-bis(2-chlorobenzylidene-4-oxo-piperidine-1-yl)-4-oxo-2-butenoic acid] or CLEFMA in liposomes for treatment of xenograft lung tumor in rats. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 84, 329-337.	5.0	30
15	Surface Modification of Liposomes by a Lipopolymer Targeting Prostate Specific Membrane Antigen for Theranostic Delivery in Prostate Cancer. <i>Materials</i> , 2019, 12, 756.	2.9	30
16	Biological Evaluation of Liposome-Encapsulated Hemoglobin Surface-Modified With a Novel PEGylated Nonphospholipid Amphiphile. <i>Artificial Organs</i> , 2014, 38, 625-633.	1.9	28
17	A —dose on demand—Biomarker Generator for automated production of [18F]— and [18F]FDG. <i>Applied Radiation and Isotopes</i> , 2014, 89, 167-175.	1.5	28
18	Suppression of Tumor Growth in Mice by Rationally Designed Pseudopeptide Inhibitors of Fibroblast Activation Protein and Prolyl Oligopeptidase. <i>Neoplasia</i> , 2015, 17, 43-54.	5.3	27

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19	Homozygous Expression of Mutant ELOVL4 Leads to Seizures and Death in a Novel Animal Model of Very Long-Chain Fatty Acid Deficiency. <i>Molecular Neurobiology</i> , 2018, 55, 1795-1813.	4.0	27
20	A Toll-Like Receptor-4-Interacting Surfactant Protein-A-Derived Peptide Suppresses Tumor Necrosis Factor- α Release from Mouse JAWS II Dendritic Cells. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2011, 336, 672-681.	2.5	25
21	The curcuminoid CLEFMA selectively induces cell death in H441 lung adenocarcinoma cells via oxidative stress. <i>Investigational New Drugs</i> , 2012, 30, 558-567.	2.6	24
22	Liposome-encapsulated EF24-HP β CD inclusion complex: a preformulation study and biodistribution in a rat model. <i>Journal of Nanoparticle Research</i> , 2011, 13, 2609-2623.	1.9	23
23	Liposomes Modified with Superhydrophilic Polymer Linked to a Nonphospholipid Anchor Exhibit Reduced Complement Activation and Enhanced Circulation. <i>Journal of Pharmaceutical Sciences</i> , 2015, 104, 114-123.	3.3	23
24	Neem leaf extract induces radiosensitization in human neuroblastoma xenograft through modulation of apoptotic pathway. <i>Anticancer Research</i> , 2011, 31, 161-70.	1.1	21
25	Pharmacologic Suppression of Inflammation by a Diphenyldifluoroketone, EF24, in a Rat Model of Fixed-Volume Hemorrhage Improves Survival. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2013, 347, 346-356.	2.5	20
26	3,5-Bis(2,4-Difluorobenzylidene)-4-piperidone, a Novel Compound That Affects Pancreatic Cancer Growth and Angiogenesis. <i>Molecular Cancer Therapeutics</i> , 2011, 10, 2146-2156.	4.1	19
27	Nanovesicular liposome-encapsulated hemoglobin (LEH) prevents multi-organ injuries in a rat model of hemorrhagic shock. <i>European Journal of Pharmaceutical Sciences</i> , 2016, 93, 97-106.	4.0	19
28	In vivo trafficking and immunostimulatory potential of an intranasally-administered primary dendritic cell-based vaccine. <i>BMC Immunology</i> , 2010, 11, 60.	2.2	18
29	Remediation of Hemorrhagic Shock-Induced Intestinal Barrier Dysfunction by Treatment with Diphenyldihaloketones EF24 and CLEFMA. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2014, 351, 413-422.	2.5	18
30	[^{99m} Tc] liposomes for localizing experimental colitis in rabbit model. <i>Nuclear Medicine and Biology</i> , 2003, 30, 159-168.	0.6	17
31	Synthesis and Evaluation of Novel Tc-99m Labeled Probestin Conjugates for Imaging APN/CD13 Expression In Vivo. <i>Bioconjugate Chemistry</i> , 2012, 23, 115-124.	3.6	17
32	Preclinical evaluation of 4-(3,5-bis(2-chlorobenzylidene)-4-oxo-2-piperidine-1-yl)-4-oxo-2-butenoic acid, in a mouse model of lung cancer xenograft. <i>British Journal of Pharmacology</i> , 2013, 170, 1436-1448.	3.4	17
33	Renogram comparison of p-[¹⁸ F]fluorohippurate with o-[¹²⁵ I]iodohippurate and [^{99m} Tc]MAG3 in normal rats. <i>Nuclear Medicine Communications</i> , 2011, 32, 908-912.	1.1	15
34	Single-step radiosynthesis and in vivo evaluation of a novel fluorine-18 labeled hippurate for use as a PET renal agent. <i>Nuclear Medicine and Biology</i> , 2012, 39, 1195-1201.	0.6	14
35	Stability study on an anti-cancer drug 4-(3,5-bis(2-chlorobenzylidene)-4-oxo-2-piperidine-1-yl)-4-oxo-2-butenoic acid (CLEFMA) using a stability-indicating HPLC method. <i>Journal of Pharmaceutical Analysis</i> , 2017, 7, 1-9.	5.3	14
36	Novel Synthetic Monoketone Transmute Radiation-Triggered NF κ B-Dependent TNF α Cross-Signaling Feedback Maintained NF κ B and Favors Neuroblastoma Regression. <i>PLoS ONE</i> , 2013, 8, e72464.	2.5	14

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37	Pharmaceutical Aspects of Hemoglobin-Based Oxygen Carriers. <i>Current Drug Delivery</i> , 2005, 2, 133-142.	1.6	13
38	Synthesis of radiolabeled cytarabine conjugates. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009, 19, 4764-4767.	2.2	13
39	Synthesis and in vivo evaluation of Tc-99m-labeled cyclic CisoDGRC peptide conjugates for targeting $\alpha_v\beta_3$ integrin expression. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010, 20, 5969-5972.	2.2	13
40	Imaging of isoproterenol-induced myocardial injury with ¹⁸ F labeled fluoroglucuric acid in a rat model. <i>Nuclear Medicine and Biology</i> , 2018, 59, 9-15.	0.6	13
41	Post-blast treatment with Nociceptin/Orphanin FQ peptide (NOP) receptor antagonist reduces brain injury-induced hypoxia and signaling proteins in vestibulomotor-related brain regions. <i>Behavioural Brain Research</i> , 2018, 340, 183-194.	2.2	12
42	Chapter 1 Current Perspectives in Liposome-Encapsulated Hemoglobin as Oxygen Carrier. <i>Behavior Research Methods</i> , 2009, 9, 1-28.	4.0	11
43	Anticancer Activity of an Imageable Curcuminoid 1-((2-(Aminoethyl)(6-hydrazinopyridine-3-carbamidyl)-3,5-bis((2-fluorobenzylidene)-4-piperidone)(EFAH)). <i>Chemical Biology and Drug Design</i> , 2012, 79, 194-201.		
44	Hemorrhage-Induced Interleukin-1 Receptor Pathway in Lung Is Suppressed by 3,5-Bis(2-Fluorobenzylidene)-4-Piperidone in a Rat Model of Hypovolemic Shock. <i>Artificial Organs</i> , 2014, 38, 675-683.	1.9	11
45	Diphenyldifluoroketone EF24 Suppresses Pro-inflammatory Interleukin-1 receptor 1 and Toll-like Receptor 4 in lipopolysaccharide-stimulated dendritic cells. <i>Journal of Inflammation</i> , 2015, 12, 55.	3.4	11
46	Antibacterial Activity of Synthetic Curcumin Derivatives: 3,5-Bis(benzylidene)-4-Piperidone (EF24) and EF24-Dimer Linked via Diethylenetriaminepentacetic Acid (EF2DTPA). <i>Applied Biochemistry and Biotechnology</i> , 2014, 172, 3363-3373.	2.9	10
47	Facile synthesis of para -[¹⁸ F]fluorohippurate via iodonium ylide-mediated radiofluorination for PET renography. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016, 26, 479-483.	2.2	10
48	The salutary effects of diphenyldifluoroketone EF24 in liver of a rat hemorrhagic shock model. <i>Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine</i> , 2015, 23, 8.	2.6	9
49	Lung and general health effects of Toll-like receptor-4 (TLR4)-interacting SPA4 peptide. <i>BMC Pulmonary Medicine</i> , 2020, 20, 179.	2.0	9
50	Insertion of poly (ethylene glycol)-lipid reduces the liposome-encapsulated hemoglobin-induced thrombocytopenic reaction. <i>American Journal of Pharmacology and Toxicology</i> , 2007, 2, 98-105.	0.7	9
51	F-18-fluorothymidine-PET evaluation of bone marrow transplant in a rat model. <i>Nuclear Medicine Communications</i> , 2010, 31, 152-158.	1.1	8
52	Automated production and quality testing of [¹⁸ F]labeled radiotracers using the BG75 system. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2015, 305, 387-401.	1.5	8
53	Hemorrhagic shock-induced cerebral bioenergetic imbalance is corrected by pharmacologic treatment with EF24 in a rat model. <i>Neuropharmacology</i> , 2015, 99, 318-327.	4.1	8
54	Induction of gut proteasome activity in hemorrhagic shock and its recovery by treatment with diphenyldihaloketones CLEFMA and EF24. <i>American Journal of Physiology - Renal Physiology</i> , 2018, 315, G318-G327.	3.4	8

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55	Magnetic Resonance Spectroscopy for Evaluation of Liposome-Encapsulated Hemoglobin as a Resuscitation Fluid. <i>Artificial Cells, Blood Substitutes, and Biotechnology</i> , 2010, 38, 69-78.	0.9	7
56	Synthesis and <i>in vivo</i> evaluation of gallium-68-labeled glycine and hippurate conjugates for positron emission tomography renography. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2015, 58, 14-19.	1.0	7
57	Evaluation of [¹⁸ F]PFH PET renography to predict future disease progression in a rat model of autosomal dominant polycystic kidney disease. <i>Nuclear Medicine and Biology</i> , 2016, 43, 1-5.	0.6	7
58	Evaluation of ^{99m} Tc-Probestin SPECT As a Novel Technique for Noninvasive Imaging of Kidney Aminopeptidase N Expression. <i>Molecular Pharmaceutics</i> , 2014, 11, 2948-2953.	4.6	6
59	Anchoring Property of a Novel Hydrophilic Lipopolymer, HDAS-SHP, Post-Inserted in Preformed Liposomes. <i>Nanomaterials</i> , 2019, 9, 1185.	4.1	6
60	PET Detection of Cerebral Necrosis Using an Infarct-Avid Agent 2-Deoxy-2-[¹⁸ F]Fluoro-d-Glucuric Acid (FGA) in a Mouse Model of the Brain Stroke. <i>Molecular Imaging and Biology</i> , 2020, 22, 1353-1361.	2.6	6
61	Mechanism of Anti-Inflammatory Activity of TLR4-Interacting SPA4 Peptide. <i>ImmunoHorizons</i> , 2021, 5, 659-674.	1.8	6
62	Modulation of oxidative stability of haemoglobin inside liposome-encapsulated haemoglobin. <i>Journal of Microencapsulation</i> , 2013, 30, 471-478.	2.8	5
63	The Brain Metabolic Activity after Resuscitation with Liposome-Encapsulated Hemoglobin in a Rat Model of Hypovolemic Shock. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2015, 35, 1528-1536.	4.3	5
64	Effect of liposome-encapsulated hemoglobin resuscitation on proteostasis in small intestinal epithelium after hemorrhagic shock. <i>American Journal of Physiology - Renal Physiology</i> , 2016, 311, G180-G191.	3.4	5
65	Ubiquitin Receptor RPN13 Mediates the Inhibitory Interaction of Diphenyldihaloketones CLEFMA and EF24 With the 26S Proteasome. <i>Frontiers in Chemistry</i> , 2018, 6, 392.	3.6	5
66	Anti-inflammatory mediators ST2 and SIGIRR are induced by diphenyldifluoroketone EF24 in lipopolysaccharide-stimulated dendritic cells. <i>Immunobiology</i> , 2020, 225, 151886.	1.9	5
67	^{99m} Tc- ¹²⁵ I-Insulin: Labeling, biodistribution and scintigraphy in animals. <i>Nuclear Medicine and Biology</i> , 1994, 21, 251-254.	0.6	4
68	Synthesis and biodistribution studies of technetium-99m-labeled aminopeptidase N inhibitor conjugates. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012, 22, 4567-4570.	2.2	4
69	Evaluation of ^{99m} Tc-probestin for imaging APN expressing tumors by SPECT. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2013, 23, 5049-5052.	2.2	4
70	Safety and feasibility of rhenium-186 nanoliposome (¹⁸⁶ RNL) in recurrent glioma: The ReSPECT phase 1 trial.. <i>Journal of Clinical Oncology</i> , 2021, 39, 2061-2061.	1.6	4
71	Nanoparticles for Targeting of Prostate Cancer. <i>Current Pharmaceutical Design</i> , 2020, 26, 5393-5413.	1.9	4
72	Synthesis and <i>in vivo</i> evaluation of ortho-[¹²⁴ I]iodohippurate for PET renography in healthy rats. <i>Applied Radiation and Isotopes</i> , 2016, 115, 251-255.	1.5	3

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73	Drug-induced cardiomyopathy: Characterization of a rat model by [¹⁸ F]FDG/PET and [^{99m} Tc]MIBI/SPECT. <i>Animal Models and Experimental Medicine</i> , 2020, 3, 295-303.	3.3	2
74	Evaluation of anti-inflammatory diphenyldihaloketone EF24 in transient ischemic stroke model. <i>Brain Injury</i> , 2022, 36, 279-286.	1.2	2
75	Production of [¹³ N]ammonia from [¹³ C]methanol on a 7.5 MeV cyclotron using ¹³ C(p, n) ¹³ N reaction: Detection of myocardial infarction in a mouse model. <i>Applied Radiation and Isotopes</i> , 2019, 150, 19-24.	1.5	1
76	Tubulin inhibitory activity of a novel colchicine-binding compounds based on a dinaphthospiropyran scaffold. <i>Bioorganic and Medicinal Chemistry</i> , 2021, 29, 115874.	3.0	1
77	Tumor suppressive activities of solvatochromic 3,3'-azadimethylene dinaphthospiropyran in colon cancer model. <i>Chemical Biology and Drug Design</i> , 2021, 97, 325-340.	3.2	1
78	Catalyst-Free and Scalable Process for Synthesis of Novel MAP4K4 Inhibitor DMX-5804 and Its Glyco-Conjugates. <i>Organic Process Research and Development</i> , 2021, 25, 1658-1663.	2.7	1
79	Positron Emission Tomography (PET) with ¹⁸ F-FGA for Diagnosis of Myocardial Infarction in a Coronary Artery Ligation Model. <i>Molecular Imaging</i> , 2022, 2022, 9147379.	1.4	1
80	Design of ^{99m} Tc-labeled zinc-chelating imaging probe for SPECT imaging of the pancreas. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2021, 52, 128385.	2.2	0
81	F-18 Fluorothymidine (FLT) Imaging of the Bone Marrow Compartment in Rats Following Whole Body Irradiation, Stem Cell Transplantation and Spontaneous Recovery.. <i>Blood</i> , 2009, 114, 3529-3529.	1.4	0
82	Editorial: Bypassing the Biological Barriers by Means of Biocompatible Drug Delivery Systems. <i>Frontiers in Pharmacology</i> , 2021, 12, 801383.	3.5	0