

Alexander V Mayorov

List of Publications by Year in descending order

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40
papers

1,669
citations

331670

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315739

38
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43
all docs

43
docs citations

43
times ranked

1815
citing authors

#	ARTICLE	IF	CITATIONS
1	The melanocortin-1 receptor gene mediates female-specific mechanisms of analgesia in mice and humans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 4867-4872.	7.1	469
2	A Vaccine Strategy that Induces Protective Immunity against Heroin. <i>Journal of Medicinal Chemistry</i> , 2011, 54, 5195-5204.	6.4	107
3	Liposomes containing lipid A: an effective, safe, generic adjuvant system for synthetic vaccines. <i>Expert Review of Vaccines</i> , 2012, 11, 733-744.	4.4	107
4	Impact of Distinct Chemical Structures for the Development of a Methamphetamine Vaccine. <i>Journal of the American Chemical Society</i> , 2011, 133, 6587-6595.	13.7	73
5	Liposomes containing monophosphoryl lipid A: A potent adjuvant system for inducing antibodies to heroin hapten analogs. <i>Vaccine</i> , 2013, 31, 2804-2810.	3.8	69
6	Efficacy, but Not Antibody Titer or Affinity, of a Heroin Hapten Conjugate Vaccine Correlates with Increasing Hapten Densities on Tetanus Toxoid, but Not on CRM ₁₉₇ Carriers. <i>Bioconjugate Chemistry</i> , 2015, 26, 1041-1053.	3.6	61
7	Thalidomide Metabolites and Analogues. 3. Synthesis and Antiangiogenic Activity of the Teratogenic and TNF α -Modulatory Thalidomide Analogue 2-(2,6-Dioxopiperidine-3-yl)phthalimidine. <i>Journal of Medicinal Chemistry</i> , 2003, 46, 3793-3799.	6.4	58
8	Design and Microwave-Assisted Synthesis of Novel Macrocyclic Peptides Active at Melanocortin Receptors: Discovery of Potent and Selective hMC5R Receptor Antagonists. <i>Journal of Medicinal Chemistry</i> , 2008, 51, 2701-2707.	6.4	55
9	Effects of selective modulation of the central melanocortin-3-receptor on food intake and hypothalamic POMC expression. <i>Peptides</i> , 2008, 29, 440-447.	2.4	49
10	Facial recognition of heroin vaccine opiates: Type 1 cross-reactivities of antibodies induced by hydrolytically stable haptenic surrogates of heroin, 6-acetylmorphine, and morphine. <i>Vaccine</i> , 2014, 32, 1473-1479.	3.8	44
11	Catalytic antibody degradation of ghrelin increases whole-body metabolic rate and reduces refeeding in fasting mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 17487-17492.	7.1	43
12	Novel 3D Pharmacophore of μ -MSH/ δ -MSH Hybrids Leads to Selective Human MC1R and MC3R Analogues. <i>Journal of Medicinal Chemistry</i> , 2005, 48, 1839-1848.	6.4	38
13	Development of Cyclic δ -MSH Analogues with Selective hMC3R Agonist and hMC3R/hMC5R Antagonist Activities. <i>Journal of Medicinal Chemistry</i> , 2006, 49, 1946-1952.	6.4	38
14	Design, synthesis, and biological evaluation of a new class of small molecule peptide mimetics targeting the melanocortin receptors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2006, 16, 5462-5467.	2.2	37
15	Design of novel melanotropin agonists and antagonists with high potency and selectivity for human melanocortin receptors. <i>Peptides</i> , 2005, 26, 1481-1485.	2.4	36
16	Novel selective human melanocortin-3 receptor ligands: Use of the 4-amino-1,2,4,5-tetrahydro-2-benzazepin-3-one (Aba) scaffold. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2007, 17, 2492-2498.	2.2	31
17	Real Time Differentiation of G-Protein Coupled Receptor (GPCR) Agonist and Antagonist by Two Photon Fluorescence Laser Microscopy. <i>Journal of the American Chemical Society</i> , 2004, 126, 7160-7161.	13.7	30
18	Oligoclonal Antibody Targeting Ghrelin Increases Energy Expenditure and Reduces Food Intake in Fasted Mice. <i>Molecular Pharmaceutics</i> , 2012, 9, 281-289.	4.6	30

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19	Melanocortin receptors, melanotropic peptides and penile erection. <i>Current Topics in Medicinal Chemistry</i> , 2007, 7, 1098-1106.	2.1	29
20	Symptomatic Relief of Botulinum Neurotoxin/A Intoxication with Aminopyridines: A New Twist on an Old Molecule. <i>ACS Chemical Biology</i> , 2010, 5, 1183-1191.	3.4	25
21	Design, Synthesis and Biological Evaluation of Ligands Selective for the Melanocortin-3 Receptor. <i>Current Topics in Medicinal Chemistry</i> , 2007, 7, 1107-1119.	2.1	24
22	Effects of Macrocyclic Size and Rigidity on Melanocortin Receptor-1 and -5 Selectivity in Cyclic Lactam α -Melanocyte-Stimulating Hormone Analogs. <i>Chemical Biology and Drug Design</i> , 2006, 67, 329-335.	3.2	21
23	Cell Signaling and Trafficking of Human Melanocortin Receptors in Real Time Using Two-photon Fluorescence and Confocal Laser Microscopy: Differentiation of Agonists and Antagonists. <i>Chemical Biology and Drug Design</i> , 2006, 68, 183-193.	3.2	21
24	Design and synthesis of trivalent ligands targeting opioid, cholecystokinin, and melanocortin receptors for the treatment of pain. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010, 20, 4080-4084.	2.2	19
25	Identification of $\hat{\iota}$ -Macroglobulin as a Major Serum Ghrelin Esterase. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 10699-10702.	13.8	19
26	Generation of Quorum Quenching Antibodies. <i>Methods in Molecular Biology</i> , 2011, 692, 299-311.	0.9	17
27	Structure-Activity Relationships of Cyclic Lactam Analogues of $\hat{\iota}$ -Melanocyte-Stimulating Hormone ($\hat{\iota}$ -MSH) Targeting the Human Melanocortin-3 Receptor. <i>Journal of Medicinal Chemistry</i> , 2008, 51, 187-195.	6.4	16
28	Synthesis of "clickable" acylhomoserine lactone quorum sensing probes: Unanticipated effects on mammalian cell activation. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011, 21, 2702-2705.	2.2	16
29	Thalidomide metabolites. Part 1: Derivatives of (+)-2-(N-phthalimido)- $\hat{\iota}$ -hydroxyglutamic acid. <i>Tetrahedron Letters</i> , 2000, 41, 2275-2278.	1.4	13
30	Substitution of Arginine with Proline and Proline Derivatives in Melanocyte-Stimulating Hormones Leads to Selectivity for Human Melanocortin 4 Receptor. <i>Journal of Medicinal Chemistry</i> , 2009, 52, 3627-3635.	6.4	12
31	Structure-activity studies of new melanocortin peptides containing an aromatic amino acid at the N-terminal position. <i>Peptides</i> , 2006, 27, 472-481.	2.4	11
32	Solid-phase peptide head-to-side chain cyclodimerization: Discovery of C2-symmetric cyclic lactam hybrid $\hat{\iota}$ -melanocyte-stimulating hormone (MSH)/agouti-signaling protein (ASIP) analogues with potent activities at the human melanocortin receptors. <i>Peptides</i> , 2010, 31, 1894-1905.	2.4	11
33	Opioid and melanocortin receptors: Do they have overlapping pharmacophores?. <i>Biopolymers</i> , 2008, 90, 433-438.	2.4	10
34	An Unusual Conformation of $\hat{\iota}$ -Melanocyte-Stimulating Hormone Analogues Leads to a Selective Human Melanocortin 1 Receptor Antagonist for Targeting Melanoma Cells. <i>Biochemistry</i> , 2013, 52, 752-764.	2.5	10
35	Cyclic lactam hybrid $\hat{\iota}$ -MSH/Agouti-related protein (AGRP) analogues with nanomolar range binding affinities at the human melanocortin receptors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011, 21, 3099-3102.	2.2	8
36	Prevention of Drug-Induced Memory Impairment by Immunopharmacotherapy. <i>Journal of Medicinal Chemistry</i> , 2008, 51, 6866-6875.	6.4	6

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37	Asymmetric Synthesis of 4-Methyl-2,3-dideoxynucleosides. Nucleosides & Nucleotides, 1999, 18, 1977-1984.	1.8	3
38	Palladium(0)-Mediated Preparation of trans-4-Substituted-1-(phthalimido)-2-cyclopentenes. Synlett, 2003, 2003, 0532-0536.	1.8	3
39	Design And Parallel Synthesis Of New Bicyclic Small Molecules For Targeting The Melanocortin Receptors. Advances in Experimental Medicine and Biology, 2009, 611, 187-188.	1.6	0
40	Peptide and Non-Peptide Mimetics Utilize Different Pathways for Signal Transduction. Advances in Experimental Medicine and Biology, 2009, 611, 305-306.	1.6	0