Alexander V Mayorov

List of Publications by Year
in descending order

40	1,669	331670 21	315739 38
papers	citations	h-index	g-index

43	43	43	1815
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Efficacy, but Not Antibody Titer or Affinity, of a Heroin Hapten Conjugate Vaccine Correlates with Increasing Hapten Densities on Tetanus Toxoid, but Not on CRM₁₉₇ Carriers. Bioconjugate Chemistry, 2015, 26, 1041-1053.	3.6	61
2	Facial recognition of heroin vaccine opiates: Type 1 cross-reactivities of antibodies induced by hydrolytically stable haptenic surrogates of heroin, 6-acetylmorphine, and morphine. Vaccine, 2014, 32, 1473-1479.	3.8	44
3	Liposomes containing monophosphoryl lipid A: A potent adjuvant system for inducing antibodies to heroin hapten analogs. Vaccine, 2013, 31, 2804-2810.	3.8	69
4	An Unusual Conformation of Î³-Melanocyte-Stimulating Hormone Analogues Leads to a Selective Human Melanocortin 1 Receptor Antagonist for Targeting Melanoma Cells. Biochemistry, 2013, 52, 752-764.	2.5	10
5	Oligoclonal Antibody Targeting Ghrelin Increases Energy Expenditure and Reduces Food Intake in Fasted Mice. Molecular Pharmaceutics, 2012, 9, 281-289.	4.6	30
6	Liposomes containing lipid A: an effective, safe, generic adjuvant system for synthetic vaccines. Expert Review of Vaccines, 2012, 11, 733-744.	4.4	107
7	Impact of Distinct Chemical Structures for the Development of a Methamphetamine Vaccine. Journal of the American Chemical Society, 2011, 133, 6587-6595.	13.7	73
8	A Vaccine Strategy that Induces Protective Immunity against Heroin. Journal of Medicinal Chemistry, 2011, 54, 5195-5204.	6.4	107
9	Generation of Quorum Quenching Antibodies. Methods in Molecular Biology, 2011, 692, 299-311.	0.9	17
10	Identification of Î±₂â€¦Macroglobulin as a Major Serum Ghrelin Esterase. Angewandte Chemie - International Edition, 2011, 50, 10699-10702.	13.8	19
11	Synthesis of â€˜clickableâ€™ acylhomoserine lactone quorum sensing probes: Unanticipated effects on mammalian cell activation. Bioorganic and Medicinal Chemistry Letters, 2011, 21, 2702-2705.	2.2	16
12	Cyclic lactam hybrid Î±-MSH/Agouti-related protein (AGRP) analogues with nanomolar range binding affinities at the human melanocortin receptors. Bioorganic and Medicinal Chemistry Letters, 2011, 21, 3099-3102.	2.2	8
13	Design and synthesis of trivalent ligands targeting opioid, cholecystokinin, and melanocortin receptors for the treatment of pain. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 4080-4084.	2.2	19
14	Solid-phase peptide head-to-side chain cyclodimerization: Discovery of C2-symmetric cyclic lactam hybrid Î±-melanocyte-stimulating hormone (MSH)/agouti-signaling protein (ASIP) analogues with potent activities at the human melanocortin receptors. Peptides, 2010, 31, 1894-1905.	2.4	11
15	Symptomatic Relief of Botulinum Neurotoxin/A Intoxication with Aminopyridines: A New Twist on an Old Molecule. ACS Chemical Biology, 2010, 5, 1183-1191.	3.4	25
16	Substitution of Arginine with Proline and Proline Derivatives in Melanocyte-Stimulating Hormones Leads to Selectivity for Human Melanocortin 4 Receptor. Journal of Medicinal Chemistry, 2009, 52, 3627-3635.	6.4	12
17	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
18	Peptide and Non-Peptide Mimetics Utilize Different Pathways for Signal Transduction. Advances in Experimental Medicine and Biology, 2009, 611, 305-306.	1.6	0

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19	Opioid and melanocortin receptors: Do they have overlapping pharmacophores?. Biopolymers, 2008, 90, 433-438.	2.4	10
20	Prevention of Drug-Induced Memory Impairment by Immunopharmacotherapy. Journal of Medicinal Chemistry, 2008, 51, 6866-6875.	6.4	6
21	Effects of selective modulation of the central melanocortin-3-receptor on food intake and hypothalamic POMC expression. Peptides, 2008, 29, 440-447.	2.4	49
22	Design and Microwave-Assisted Synthesis of Novel Macrocyclic Peptides Active at Melanocortin Receptors: Discovery of Potent and Selective hMC5R Receptor Antagonists. Journal of Medicinal Chemistry, 2008, 51, 2701-2707.	6.4	55
23	Structureâ€“Activity Relationships of Cyclic Lactam Analogues of Î±-Melanocyte-Stimulating Hormone (Î±-MSH) Targeting the Human Melanocortin-3 Receptor. Journal of Medicinal Chemistry, 2008, 51, 187-195.	6.4	16
24	Catalytic antibody degradation of ghrelin increases whole-body metabolic rate and reduces refeeding in fasting mice. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 17487-17492.	7.1	43
25	Design, Synthesis and Biological Evaluation of Ligands Selective for the Melanocortin-3 Receptor. Current Topics in Medicinal Chemistry, 2007, 7, 1107-1119.	2.1	24
26	Novel selective human melanocortin-3 receptor ligands: Use of the 4-amino-1,2,4,5-tetrahydro-2-benzazepin-3-one (Aba) scaffold. Bioorganic and Medicinal Chemistry Letters, 2007, 17, 2492-2498.	2.2	31
27	Melanocortin receptors, melanotropic peptides and penile erection. Current Topics in Medicinal Chemistry, 2007, 7, 1098-1106.	2.1	29
28	Development of Cyclic Î³-MSH Analogues with Selective hMC3R Agonist and hMC3R/hMC5R Antagonist Activities. Journal of Medicinal Chemistry, 2006, 49, 1946-1952.	6.4	38
29	Structureâ€“activity studies of new melanocortin peptides containing an aromatic amino acid at the N-terminal position. Peptides, 2006, 27, 472-481.	2.4	11
30	Effects of Macrocycle Size and Rigidity on Melanocortin Receptor-1 and -5 Selectivity in Cyclic Lactam alpha-Melanocyte-Stimulating Hormone Analogs. Chemical Biology and Drug Design, 2006, 67, 329-335.	3.2	21
31	Cell Signaling and Trafficking of Human Melanocortin Receptors in Real Time Using Two-photon Fluorescence and Confocal Laser Microscopy: Differentiation of Agonists and Antagonists. Chemical Biology and Drug Design, 2006, 68, 183-193.	3.2	21
32	Design, synthesis, and biological evaluation of a new class of small molecule peptide mimetics targeting the melanocortin receptors. Bioorganic and Medicinal Chemistry Letters, 2006, 16, 5462-5467.	2.2	37
33	Novel 3D Pharmacophore of Î±-MSH/Î³-MSH Hybrids Leads to Selective Human MC1R and MC3R Analoguesâ€. Journal of Medicinal Chemistry, 2005, 48, 1839-1848.	6.4	38
34	Design of novel melanotropin agonists and antagonists with high potency and selectivity for human melanocortin receptors. Peptides, 2005, 26, 1481-1485.	2.4	36
35	Real Time Differentiation of G-Protein Coupled Receptor (GPCR) Agonist and Antagonist by Two Photon Fluorescence Laser Microscopy. Journal of the American Chemical Society, 2004, 126, 7160-7161.	13.7	30
36	Thalidomide Metabolites and Analogues. 3. Synthesis and Antiangiogenic Activity of the Teratogenic and TNFÎ±-Modulatory Thalidomide Analogue 2-(2,6-Dioxopiperidine-3-yl)phthalimidine. Journal of Medicinal Chemistry, 2003, 46, 3793-3799.	6.4	58

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37	The melanocortin-1 receptor gene mediates female-specific mechanisms of analgesia in mice and humans. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 4867-4872.	7.1	469
38	Palladium(0)-Mediated Preparation oftrans-4-Substituted-1-(phthalimido)-2-cyclopentenes. Synlett, 2003, 2003, 0532-0536.	1.8	3
39	Thalidomide metabolites. Part 1: Derivatives of (+)-2-(N-phthalimido)-Î³-hydroxyglutamic acid. Tetrahedron Letters, 2000, 41, 2275-2278.	1.4	13
40	Asymmetric Synthesis of 4â€²-Methyl-2â€²,3â€²-dideoxynucleosides. Nucleosides & Nucleotides, 1999, 18, 1977-1984.	0.8	3