David C Chiara

List of Publications by Year
in descending order

43 papers	1,947 citations	218677 26 h-index	254184 43 g-index
43 all docs	43 docs citations	43 times ranked	946 citing authors

#	Article	IF	Citations
1	Photoaffinity labeling identifies an intersubunit steroid-binding site in heteromeric GABA type A (GABAA) receptors. Journal of Biological Chemistry, 2020, 295, 11495-11512.	3.4	10
2	Identifying Drugs that Bind Selectively to Intersubunit General Anesthetic Sites in the Î±1Î²3Î³2 GABA_AR Transmembrane Domain. Molecular Pharmacology, 2019, 95, 615-628.	2.3	22
3	A photoreactive analog of allopregnanolone enables identification of steroid-binding sites in a nicotinic acetylcholine receptor. Journal of Biological Chemistry, 2019, 294, 7892-7903.	3.4	3
4	Inhibitable photolabeling by neurosteroid diazirine analog in the Î²3-Subunit of human hetereopentameric type A GABA receptors. European Journal of Medicinal Chemistry, 2019, 162, 810-824.	5.5	7
5	Unraveling amino acid residues critical for allosteric potentiation of (Î±4)3(Î²2)2-type nicotinic acetylcholine receptor responses. Journal of Biological Chemistry, 2017, 292, 9988-10001.	3.4	14
6	Photoaffinity Labeling of Pentameric Ligand-Gated Ion Channels: A Proteomic Approach to Identify Allosteric Modulator Binding Sites. Methods in Molecular Biology, 2017, 1598, 157-197.	0.9	4
7	Synthesis and pharmacological evaluation of neurosteroid photoaffinity ligands. European Journal of Medicinal Chemistry, 2017, 136, 334-347.	5.5	12
8	General Anesthetic Binding Sites in Human Î±4Î²3Î´ Î³-Aminobutyric Acid Type A Receptors (GABAARs). Journal of Biological Chemistry, 2016, 291, 26529-26539.	3.4	19
9	Multiple Non-Equivalent Interfaces Mediate Direct Activation of GABAA Receptors by Propofol. Current Neuropharmacology, 2016, 14, 772-780.	2.9	37
10	Positive and Negative Allosteric Modulation of an Î±1Î²3Î³2 Î³-Aminobutyric Acid Type A (GABAA) Receptor by Binding to a Site in the Transmembrane Domain at the Î³+-Î²â^' Interface. Journal of Biological Chemistry, 2015, 290, 23432-23446.	3.4	28
11	Anesthetics target interfacial transmembrane sites in nicotinic acetylcholine receptors. Neuropharmacology, 2015, 96, 169-177.	4.1	38
12	Identifying Barbiturate Binding Sites in a Nicotinic Acetylcholine Receptor with [³H]Allyl m-Trifluoromethyldiazirine Mephobarbital, a Photoreactive Barbiturate. Molecular Pharmacology, 2014, 85, 735-746.	2.3	23
13	Photoaffinity Labeling of Nicotinic Receptors: Diversity of Drug Binding Sites!. Journal of Molecular Neuroscience, 2014, 53, 480-486.	2.3	32
14	Multiple Propofol-binding Sites in a Î³-Aminobutyric Acid Type A Receptor (GABAAR) Identified Using a Photoreactive Propofol Analog. Journal of Biological Chemistry, 2014, 289, 27456-27468.	3.4	106
15	Photoaffinity Labeling the Propofol Binding Site in GLIC. Biochemistry, 2014, 53, 135-142.	2.5	36
16	Specificity of Intersubunit General Anesthetic-binding Sites in the Transmembrane Domain of the Human Î±1Î²3Î³2 Î³-Aminobutyric Acid Type A (GABAA) Receptor*. Journal of Biological Chemistry, 2013, 288, 19343-19357.	3.4	124
17	Cysteine Substitutions Define Etomidate Binding and Gating Linkages in the Î±-M1 Domain of Î³-Aminobutyric Acid Type A (GABAA) Receptors. Journal of Biological Chemistry, 2013, 288, 30373-30386.	3.4	25
18	Mapping General Anesthetic Binding Site(s) in Human Î±1Î²3 Î³-Aminobutyric Acid Type A Receptors with [³H]TDBzl-Etomidate, a Photoreactive Etomidate Analogue. Biochemistry, 2012, 51, 836-847.	2.5	98

#	Article	IF	Citations
19	Allylm-Trifluoromethyldiazirine Mephobarbital: An Unusually Potent Enantioselective and Photoreactive Barbiturate General Anesthetic. Journal of Medicinal Chemistry, 2012, 55, 6554-6565.	6.4	46
20	Identifying an Etomidate Binding Site in Heterologously Expressed Human Alpha1/Beta3 GABAA Receptors (GABAAR) Using Photoactive Etomidate Analogs. Biophysical Journal, 2011, 100, 271a.	0.5	1
21	p-(4-Azipentyl)propofol: A Potent Photoreactive General Anesthetic Derivative of Propofol. Journal of Medicinal Chemistry, 2011, 54, 8124-8135.	6.4	35
22	Conformational Changes in the Nicotinic Acetylcholine Receptor during Gating and Desensitization. Biochemistry, 2010, 49, 156-165.	2.5	34
23	Numerous Classes of General Anesthetics Inhibit Etomidate Binding to Î³-Aminobutyric Acid Type A (GABAA) Receptors. Journal of Biological Chemistry, 2010, 285, 8615-8620.	3.4	75
24	Time-Resolved Photolabeling of the Nicotinic Acetylcholine Receptor by [³H]Azietomidate, an Open-State Inhibitor. Molecular Pharmacology, 2009, 75, 1084-1095.	2.3	29
25	[³H]Chlorpromazine Photolabeling of the Torpedo Nicotinic Acetylcholine Receptor Identifies Two State-Dependent Binding Sites in the Ion Channel. Biochemistry, 2009, 48, 10066-10077.	2.5	34
26	Neurosteroids Allosterically Modulate Binding of the Anesthetic Etomidate to Î³-Aminobutyric Acid Type A Receptors. Journal of Biological Chemistry, 2009, 284, 11771-11775.	3.4	64
27	Probing the Structure of the Affinity-Purified and Lipid-Reconstituted Torpedo Nicotinic Acetylcholine Receptor. Biochemistry, 2008, 47, 12787-12794.	2.5	33
28	Identification of Binding Sites in the Nicotinic Acetylcholine Receptor for TDBzl-etomidate, a Photoreactive Positive Allosteric Effector. Journal of Biological Chemistry, 2008, 283, 22051-22062.	3.4	63
29	[³H]Benzophenone Photolabeling Identifies State-Dependent Changes in Nicotinic Acetylcholine Receptor Structure. Biochemistry, 2007, 46, 10296-10307.	2.5	30
30	Identifying the Lipidâ"Protein Interface of the Î±4Î²2 Neuronal Nicotinic Acetylcholine Receptor:â€‰ Hydrophobic Photolabeling Studies with 3-(Trifluoromethyl)-3-(m-[¹²⁵I]iodophenyl)diazirine. Biochemistry, 2007, 46, 13837-13846.	2.5	17
31	Identification of a GABAA Receptor Anesthetic Binding Site at Subunit Interfaces by Photolabeling with an Etomidate Analog. Journal of Neuroscience, 2006, 26, 11599-11605.	3.6	280
32	Cholesterol Interacts with Transmembrane Î±-Helices M1, M3, and M4 of theTorpedoNicotinic Acetylcholine Receptor:Â Photolabeling Studies Using [3H]Azicholesterolâ€. Biochemistry, 2006, 45, 976-986.	2.5	79
33	alpha-Conotoxin GI benzoylphenylalanine derivatives. 1H-NMR structures and photoaffinity labeling of the Torpedo californica nicotinic acetylcholine receptor. FEBS Journal, 2006, 273, 1373-1388.	4.7	17
34	Gating-enhanced Accessibility of Hydrophobic Sites within the Transmembrane Region of the Nicotinic Acetylcholine Receptor's Î´-Subunit. Journal of Biological Chemistry, 2005, 280, 13631-13640.	3.4	47
35	Identification of Amino Acids in the Nicotinic Acetylcholine Receptor Agonist Binding Site and Ion Channel Photolabeled by 4-[(3-Trifluoromethyl)-3H-Diazirin-3-yl]Benzoylcholine, a Novel Photoaffinity Antagonistâ€. Biochemistry, 2003, 42, 271-283.	2.5	20
36	Identification of Nicotinic Acetylcholine Receptor Amino Acids Photolabeled by the Volatile Anesthetic Halothane. Biochemistry, 2003, 42, 13457-13467.	2.5	95

#	Article	IF	Citations
37	Identification of the Bovine Î³-Aminobutyric Acid Type A Receptor Î± Subunit Residues Photolabeled by the Imidazobenzodiazepine [3H]Ro15-4513. Journal of Biological Chemistry, 2002, 277, 50036-50045.	3.4	49
38	Mapping the Agonist Binding Site of the Nicotinic Acetylcholine Receptor by Cysteine Scanning Mutagenesis: Antagonist Footprint and Secondary Structure Prediction. Molecular Pharmacology, 2002, 61, 463-472.	2.3	25
39	Site of Resting State Inhibition of the Nicotinic Acetylcholine Receptor by a Hydrophobic Inhibitor. Biochemistry, 2001, 40, 296-304.	2.5	15
40	Probing the Structure of the Nicotinic Acetylcholine Receptor with 4-Benzoylbenzoylcholine, a Novel Photoaffinity Competitive Antagonist. Journal of Biological Chemistry, 2000, 275, 28666-28674.	3.4	26
41	Structure of the Agonist-Binding Sites of the Torpedo Nicotinic Acetylcholine Receptor:â€‰ Affinity-Labeling and Mutational Analyses Identify Î³Tyr-111/Î´Arg-113 as Antagonist Affinity Determinants. Biochemistry, 1999, 38, 6689-6698.	2.5	60
42	Identification of tryptophan 55 as the primary site of [3H]nicotine photoincorporation in the Î³-subunit of theTorpedonicotinic acetylcholine receptor. FEBS Letters, 1998, 423, 223-226.	2.8	45
43	Identification of Amino Acids Contributing to High and Low Affinity d-Tubocurarine Sites in the TorpedoNicotinic Acetylcholine Receptor. Journal of Biological Chemistry, 1997, 272, 32940-32950.	3.4	90