

David C Chiara

List of Publications by Year in descending order

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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	Identification of a GABAA Receptor Anesthetic Binding Site at Subunit Interfaces by Photolabeling with an Etomidate Analog. <i>Journal of Neuroscience</i> , 2006, 26, 11599-11605.	3.6	280
2	Specificity of Intersubunit General Anesthetic-binding Sites in the Transmembrane Domain of the Human $\alpha 1\beta 3\gamma 2$ γ -Aminobutyric Acid Type A (GABAA) Receptor*. <i>Journal of Biological Chemistry</i> , 2013, 288, 19343-19357.	3.4	124
3	Multiple Propofol-binding Sites in a γ -Aminobutyric Acid Type A Receptor (GABAAR) Identified Using a Photoreactive Propofol Analog. <i>Journal of Biological Chemistry</i> , 2014, 289, 27456-27468.	3.4	106
4	Mapping General Anesthetic Binding Site(s) in Human $\alpha 1\beta 3\gamma 2$ γ -Aminobutyric Acid Type A Receptors with [³ H]TDBzl-Etomidate, a Photoreactive Etomidate Analogue. <i>Biochemistry</i> , 2012, 51, 836-847.	2.5	98
5	Identification of Nicotinic Acetylcholine Receptor Amino Acids Photolabeled by the Volatile Anesthetic Halothane. <i>Biochemistry</i> , 2003, 42, 13457-13467.	2.5	95
6	Identification of Amino Acids Contributing to High and Low Affinity d-Tubocurarine Sites in the Torpedo Nicotinic Acetylcholine Receptor. <i>Journal of Biological Chemistry</i> , 1997, 272, 32940-32950.	3.4	90
7	Cholesterol Interacts with Transmembrane α -Helices M1, M3, and M4 of the Torpedo Nicotinic Acetylcholine Receptor: A Photolabeling Studies Using [³ H]Azicholesterol. <i>Biochemistry</i> , 2006, 45, 976-986.	2.5	79
8	Numerous Classes of General Anesthetics Inhibit Etomidate Binding to γ -Aminobutyric Acid Type A (GABAA) Receptors. <i>Journal of Biological Chemistry</i> , 2010, 285, 8615-8620.	3.4	75
9	Neurosteroids Allosterically Modulate Binding of the Anesthetic Etomidate to γ -Aminobutyric Acid Type A Receptors. <i>Journal of Biological Chemistry</i> , 2009, 284, 11771-11775.	3.4	64
10	Identification of Binding Sites in the Nicotinic Acetylcholine Receptor for TDBzl-etomidate, a Photoreactive Positive Allosteric Effector. <i>Journal of Biological Chemistry</i> , 2008, 283, 22051-22062.	3.4	63
11	Structure of the Agonist-Binding Sites of the Torpedo Nicotinic Acetylcholine Receptor: Affinity-Labeling and Mutational Analyses Identify γ -Tyr-111/ α -Arg-113 as Antagonist Affinity Determinants. <i>Biochemistry</i> , 1999, 38, 6689-6698.	2.5	60
12	Identification of the Bovine γ -Aminobutyric Acid Type A Receptor α Subunit Residues Photolabeled by the Imidazobenzodiazepine [³ H]Ro15-4513. <i>Journal of Biological Chemistry</i> , 2002, 277, 50036-50045.	3.4	49
13	Gating-enhanced Accessibility of Hydrophobic Sites within the Transmembrane Region of the Nicotinic Acetylcholine Receptor's α -Subunit. <i>Journal of Biological Chemistry</i> , 2005, 280, 13631-13640.	3.4	47
14	Allylm-Trifluoromethyl diazirine Mephobarbital: An Unusually Potent Enantioselective and Photoreactive Barbiturate General Anesthetic. <i>Journal of Medicinal Chemistry</i> , 2012, 55, 6554-6565.	6.4	46
15	Identification of tryptophan 55 as the primary site of [³ H]nicotine photoincorporation in the α -subunit of the Torpedonicotinic acetylcholine receptor. <i>FEBS Letters</i> , 1998, 423, 223-226.	2.8	45
16	Anesthetics target interfacial transmembrane sites in nicotinic acetylcholine receptors. <i>Neuropharmacology</i> , 2015, 96, 169-177.	4.1	38
17	Multiple Non-Equivalent Interfaces Mediate Direct Activation of GABAA Receptors by Propofol. <i>Current Neuropharmacology</i> , 2016, 14, 772-780.	2.9	37
18	Photoaffinity Labeling the Propofol Binding Site in GLIC. <i>Biochemistry</i> , 2014, 53, 135-142.	2.5	36

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19	<i>p</i> -(4-Azipentyl)propofol: A Potent Photoreactive General Anesthetic Derivative of Propofol. <i>Journal of Medicinal Chemistry</i> , 2011, 54, 8124-8135.	6.4	35
20	[³ H]Chlorpromazine Photolabeling of the <i>Torpedo</i> Nicotinic Acetylcholine Receptor Identifies Two State-Dependent Binding Sites in the Ion Channel. <i>Biochemistry</i> , 2009, 48, 10066-10077.	2.5	34
21	Conformational Changes in the Nicotinic Acetylcholine Receptor during Gating and Desensitization. <i>Biochemistry</i> , 2010, 49, 156-165.	2.5	34
22	Probing the Structure of the Affinity-Purified and Lipid-Reconstituted <i>Torpedo</i> Nicotinic Acetylcholine Receptor. <i>Biochemistry</i> , 2008, 47, 12787-12794.	2.5	33
23	Photoaffinity Labeling of Nicotinic Receptors: Diversity of Drug Binding Sites!. <i>Journal of Molecular Neuroscience</i> , 2014, 53, 480-486.	2.3	32
24	[³ H]Benzophenone Photolabeling Identifies State-Dependent Changes in Nicotinic Acetylcholine Receptor Structure. <i>Biochemistry</i> , 2007, 46, 10296-10307.	2.5	30
25	Time-Resolved Photolabeling of the Nicotinic Acetylcholine Receptor by [³ H]Azetomidate, an Open-State Inhibitor. <i>Molecular Pharmacology</i> , 2009, 75, 1084-1095.	2.3	29
26	Positive and Negative Allosteric Modulation of an $\alpha 1 \beta 2 \gamma 2$ γ -Aminobutyric Acid Type A (GABA _A) Receptor by Binding to a Site in the Transmembrane Domain at the $\beta 3$ - $\gamma 2$ Interface. <i>Journal of Biological Chemistry</i> , 2015, 290, 23432-23446.	3.4	28
27	Probing the Structure of the Nicotinic Acetylcholine Receptor with 4-Benzoylbenzoylcholine, a Novel Photoaffinity Competitive Antagonist. <i>Journal of Biological Chemistry</i> , 2000, 275, 28666-28674.	3.4	26
28	Mapping the Agonist Binding Site of the Nicotinic Acetylcholine Receptor by Cysteine Scanning Mutagenesis: Antagonist Footprint and Secondary Structure Prediction. <i>Molecular Pharmacology</i> , 2002, 61, 463-472.	2.3	25
29	Cysteine Substitutions Define Etomidate Binding and Gating Linkages in the α -M1 Domain of $\beta 3$ -Aminobutyric Acid Type A (GABA _A) Receptors. <i>Journal of Biological Chemistry</i> , 2013, 288, 30373-30386.	3.4	25
30	Identifying Barbiturate Binding Sites in a Nicotinic Acetylcholine Receptor with [³ H]Allyl <i>m</i> -Trifluoromethyl diazirin Mephobarbital, a Photoreactive Barbiturate. <i>Molecular Pharmacology</i> , 2014, 85, 735-746.	2.3	23
31	Identifying Drugs that Bind Selectively to Intersubunit General Anesthetic Sites in the $\alpha 1 \beta 2 \gamma 2$ GABA _A Receptor Transmembrane Domain. <i>Molecular Pharmacology</i> , 2019, 95, 615-628.	2.3	22
32	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 Antagonist. <i>Biochemistry</i> , 2003, 42, 271-283.	2.5	20
33	General Anesthetic Binding Sites in Human $\alpha 4 \beta 2 \gamma 2$ γ -Aminobutyric Acid Type A Receptors (GABAARs). <i>Journal of Biological Chemistry</i> , 2016, 291, 26529-26539.	3.4	19
34	α -Conotoxin GI benzoylphenylalanine derivatives. 1H-NMR structures and photoaffinity labeling of the <i>Torpedo californica</i> nicotinic acetylcholine receptor. <i>FEBS Journal</i> , 2006, 273, 1373-1388.	4.7	17
35	Identifying the Lipid-Protein Interface of the $\alpha 4 \beta 2$ Neuronal Nicotinic Acetylcholine Receptor: Hydrophobic Photolabeling Studies with 3-(Trifluoromethyl)-3-(<i>m</i> -[¹²⁵ I]iodophenyl)diazirin. <i>Biochemistry</i> , 2007, 46, 13837-13846.	2.5	17
36	Site of Resting State Inhibition of the Nicotinic Acetylcholine Receptor by a Hydrophobic Inhibitor. <i>Biochemistry</i> , 2001, 40, 296-304.	2.5	15

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37	Unraveling amino acid residues critical for allosteric potentiation of (̂±4)3(̂2)2-type nicotinic acetylcholine receptor responses. <i>Journal of Biological Chemistry</i> , 2017, 292, 9988-10001.	3.4	14
38	Synthesis and pharmacological evaluation of neurosteroid photoaffinity ligands. <i>European Journal of Medicinal Chemistry</i> , 2017, 136, 334-347.	5.5	12
39	Photoaffinity labeling identifies an intersubunit steroid-binding site in heteromeric GABA type A (GABAA) receptors. <i>Journal of Biological Chemistry</i> , 2020, 295, 11495-11512.	3.4	10
40	Inhibitable photolabeling by neurosteroid diazirine analog in the ̂3-Subunit of human heteropentameric type A GABA receptors. <i>European Journal of Medicinal Chemistry</i> , 2019, 162, 810-824.	5.5	7
41	Photoaffinity Labeling of Pentameric Ligand-Gated Ion Channels: A Proteomic Approach to Identify Allosteric Modulator Binding Sites. <i>Methods in Molecular Biology</i> , 2017, 1598, 157-197.	0.9	4
42	A photoreactive analog of allopregnanolone enables identification of steroid-binding sites in a nicotinic acetylcholine receptor. <i>Journal of Biological Chemistry</i> , 2019, 294, 7892-7903.	3.4	3
43	Identifying an Etomidate Binding Site in Heterologously Expressed Human Alpha1/Beta3 GABAA Receptors (GABAAR) Using Photoactive Etomidate Analogs. <i>Biophysical Journal</i> , 2011, 100, 271a.	0.5	1