

# Edward J Bertaccini

## List of Publications by Year in descending order

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Version: 2024-02-01

28  
papers

998  
citations

623734

14  
h-index

526287

27  
g-index

60  
all docs

60  
docs citations

60  
times ranked

829  
citing authors

#	ARTICLE	IF	CITATIONS
1	Modulation of $\gamma$ -GABA <sub>A</sub> receptors expressed in <i>X. laevis</i> oocytes using a propofol photoswitch tethered to the transmembrane helix. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	4
2	A newly developed anesthetic based on a unique chemical core. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 15706-15715.	7.1	14
3	Insights Into Receptor-Based Anesthetic Pharmacophores and Anesthetic-Protein Interactions. Methods in Enzymology, 2018, 602, 77-95.	1.0	5
4	The Role of the Hydroxyl Group in Propofol-Protein Target Recognition: Insights from ONIOM Studies. Journal of Physical Chemistry B, 2017, 121, 5883-5896.	2.6	14
5	Identification of an Inhibitory Alcohol Binding Site in GABA <sub>A</sub> Receptors. ACS Chemical Neuroscience, 2016, 7, 100-108.	3.5	12
6	Invasive Mechanical Ventilation in California Over 2000-2009: Implications for Emergency Medicine. Western Journal of Emergency Medicine, 2015, 16, 696-706.	1.1	6
7	Insights into the Nature of Anesthetic-Protein Interactions: An ONIOM Study. Journal of Physical Chemistry B, 2015, 119, 12771-12782.	2.6	8
8	Structural Models of Ligand-Gated Ion Channels: Sites of Action for Anesthetics and Ethanol. Alcoholism: Clinical and Experimental Research, 2014, 38, 595-603.	2.4	47
9	Molecular Modeling of a Tandem Two Pore Domain Potassium Channel Reveals a Putative Binding Site for General Anesthetics. ACS Chemical Neuroscience, 2014, 5, 1246-1252.	3.5	19
10	Assessment of Homology Templates and an Anesthetic Binding Site within the $\gamma$ -Aminobutyric Acid Receptor. Anesthesiology, 2013, 119, 1087-1095.	2.5	33
11	Molecular Mechanism for the Dual Alcohol Modulation of Cys-loop Receptors. PLoS Computational Biology, 2012, 8, e1002710.	3.2	35
12	Induced changes in protein receptors conferring resistance to anesthetics. Current Opinion in Anaesthesiology, 2012, 25, 405-410.	2.0	2
13	Teaching an Old GABA Receptor New Tricks. Anesthesia and Analgesia, 2012, 115, 270-273.	2.2	11
14	Microsecond Simulations Indicate that Ethanol Binds between Subunits and Could Stabilize an Open-State Model of a Glycine Receptor. Biophysical Journal, 2011, 100, 1642-1650.	0.5	72
15	The Molecular Mechanisms of Anesthetic Action: Updates and Cutting Edge Developments from the Field of Molecular Modeling. Pharmaceuticals, 2010, 3, 2178-2196.	3.8	11
16	Normal Mode Gating Motions of a Ligand-Gated Ion Channel Persist in a Fully Hydrated Lipid Bilayer Model. ACS Chemical Neuroscience, 2010, 1, 552-558.	3.5	7
17	Modeling Anesthetic Binding Sites within the Glycine Alpha One Receptor Based on Prokaryotic Ion Channel Templates: The Problem with TM4. Journal of Chemical Information and Modeling, 2010, 50, 2248-2255.	5.4	24
18	Effect of Cobratoxin Binding on the Normal Mode Vibration within Acetylcholine Binding Protein. Journal of Chemical Information and Modeling, 2008, 48, 855-860.	5.4	14

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19	Molecular Modeling and Mutagenesis Reveals a Tetradentate Binding Site for Zn <sup>2+</sup> in GABA <sub>A</sub> $\alpha$ <sub>2</sub> Receptors and Provides a Structural Basis for the Modulating Effect of the $\beta$ <sub>3</sub> Subunit. Journal of Chemical Information and Modeling, 2008, 48, 344-349.	5.4	16
20	Roles for Loop 2 Residues of $\alpha$ <sub>1</sub> Glycine Receptors in Agonist Activation. Journal of Biological Chemistry, 2008, 283, 27698-27706.	3.4	17
21	The Common Chemical Motifs Within Anesthetic Binding Sites. Anesthesia and Analgesia, 2007, 104, 318-324.	2.2	45
22	Normal-Mode Analysis of the Glycine Alpha1 Receptor by Three Separate Methods. Journal of Chemical Information and Modeling, 2007, 47, 1572-1579.	5.4	32
23	Evidence that ethanol acts on a target in Loop 2 of the extracellular domain of $\alpha$ <sub>1</sub> glycine receptors. Journal of Neurochemistry, 2007, 102, 2097-2109.	3.9	58
24	Homology Modeling of a Human Glycine Alpha 1 Receptor Reveals a Plausible Anesthetic Binding Site.. ChemInform, 2005, 36, no.	0.0	0
25	Homology Modeling of a Human Glycine Alpha 1 Receptor Reveals a Plausible Anesthetic Binding Site. Journal of Chemical Information and Modeling, 2005, 45, 128-135.	5.4	36
26	Anesthetics and Ion Channels: Molecular Models and Sites of Action. Annual Review of Pharmacology and Toxicology, 2001, 41, 23-51.	9.4	231
27	Evidence for a Common Binding Cavity for Three General Anesthetics within the GABA <sub>A</sub> Receptor. Journal of Neuroscience, 2001, 21, RC136-RC136.	3.6	220
28	Evaluation of forcefields for molecular mechanics/dynamics calculations involving halogenated anesthetics. Toxicology Letters, 1998, 100-101, 413-419.	0.8	5