

Robert E Oswald

List of Publications by Year in descending order

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52
papers

1,781
citations

236925

25
h-index

265206

42
g-index

53
all docs

53
docs citations

53
times ranked

1422
citing authors

#	ARTICLE	IF	CITATIONS
1	Unraveling the modular design of glutamate-gated ion channels. Trends in Neurosciences, 1995, 18, 161-168.	8.6	264
2	Impacts of Gas Drilling on Human and Animal Health. New Solutions, 2012, 22, 51-77.	1.2	185
3	Solution Structure of Peptide Toxins That Block Mechanosensitive Ion Channels. Journal of Biological Chemistry, 2002, 277, 34443-34450.	3.4	88
4	Structural Mobility of the Extracellular Ligand-Binding Core of an Ionotropic Glutamate Receptor. Analysis of NMR Relaxation Dynamics. Biochemistry, 2002, 41, 10472-10481.	2.5	84
5	Crosslinking of α -bungarotoxin to the acetylcholine receptor from <i>Torpedo marmorata</i> by ultraviolet light irradiation. FEBS Letters, 1982, 139, 225-229.	2.8	76
6	cDNA sequence and in vitro folding of GsMTx4, a specific peptide inhibitor of mechanosensitive channels. Toxicon, 2003, 42, 263-274.	1.6	74
7	Probing the Allosteric Modulator Binding Site of GluR2 with Thiazide Derivatives. Biochemistry, 2009, 48, 8594-8602.	2.5	65
8	Piracetam Defines a New Binding Site for Allosteric Modulators of α -Amino-3-hydroxy-5-methyl-4-isoxazole-propionic Acid (AMPA) Receptors. Journal of Medicinal Chemistry, 2010, 53, 2197-2203.	6.4	58
9	Emerging structural explanations of ionotropic glutamate receptor function. FASEB Journal, 2004, 18, 428-438.	0.5	54
10	Backbone Dynamics of Inactive, Active, and Effector-Bound Cdc42Hs from Measurements of ^{15}N Relaxation Parameters at Multiple Field Strengths. Biochemistry, 1999, 38, 12547-12557.	2.5	49
11	Dynamics of the S1S2 Glutamate Binding Domain of GluR2 Measured Using ^{19}F NMR Spectroscopy. Journal of Biological Chemistry, 2007, 282, 12773-12784.	3.4	44
12	Structure of the S1S2 glutamate binding domain of GLuR3. Proteins: Structure, Function and Bioinformatics, 2009, 75, 628-637.	2.6	44
13	Mechanisms of Modal Activation of GluA3 Receptors. Molecular Pharmacology, 2011, 80, 49-59.	2.3	41
14	7-Phenoxy-Substituted 3,4-Dihydro-2H-1,2,4-benzothiadiazine 1,1-Dioxides as Positive Allosteric Modulators of α -Amino-3-hydroxy-5-methyl-4-isoxazolepropionic Acid (AMPA) Receptors with Nanomolar Potency. Journal of Medicinal Chemistry, 2018, 61, 251-264.	6.4	41
15	Mechanism of AMPA Receptor Activation by Partial Agonists. Journal of Biological Chemistry, 2011, 286, 35257-35266.	3.4	39
16	Identification of the Binding Surface on Cdc42Hs for p21-Activated Kinase. Biochemistry, 1998, 37, 14030-14037.	2.5	38
17	Mechanism of Partial Agonism at the GluR2 AMPA Receptor: Measurements of Lobe Orientation in Solution. Biochemistry, 2008, 47, 10600-10610.	2.5	38
18	Mechanisms of Antagonism of the GluR2 AMPA Receptor: Structure and Dynamics of the Complex of Two Willardiine Antagonists with the Glutamate Binding Domain. Biochemistry, 2009, 48, 3894-3903.	2.5	37

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19	Characterizing Single-Channel Behavior of GluA3 Receptors. <i>Biophysical Journal</i> , 2010, 99, 1437-1446.	0.5	37
20	Structure of Glutamate Receptors. <i>Current Drug Targets</i> , 2007, 8, 573-582.	2.1	33
21	NMR Spectroscopy of the Ligand-Binding Core of Ionotropic Glutamate Receptor 2 Bound to 5-Substituted Willardiine Partial Agonists. <i>Journal of Molecular Biology</i> , 2008, 378, 673-685.	4.2	33
22	Ionotropic Glutamate Receptor Recognition and Activation. <i>Advances in Protein Chemistry</i> , 2004, 68, 313-349.	4.4	32
23	Molecular Mechanism of Flop Selectivity and Subsite Recognition for an AMPA Receptor Allosteric Modulator: Structures of GluA2 and GluA3 in Complexes with PEPA. <i>Biochemistry</i> , 2010, 49, 2843-2850.	2.5	31
24	Long-term impacts of unconventional drilling operations on human and animal health. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2015, 50, 447-459.	1.7	28
25	Dynamics of Cleft Closure of the GluA2 Ligand-binding Domain in the Presence of Full and Partial Agonists Revealed by Hydrogen-Deuterium Exchange. <i>Journal of Biological Chemistry</i> , 2013, 288, 27658-27666.	3.4	27
26	On the Mechanisms of \pm -Amino-3-hydroxy-5-methylisoxazole-4-propionic Acid (AMPA) Receptor Binding to Glutamate and Kainate. <i>Journal of Biological Chemistry</i> , 2010, 285, 12334-12343.	3.4	26
27	Modulation of AMPA Receptor Gating by the Anticonvulsant Drug, Perampanel. <i>ACS Medicinal Chemistry Letters</i> , 2019, 10, 237-242.	2.8	18
28	Concerted Motion of a Protein-Peptide Complex: Å Backbone Dynamics Studies of an ^{15}N -Labeled Peptide Derived from P21-Activated Kinase Bound to Cdc42Hs-GMPPCP. <i>Biochemistry</i> , 2001, 40, 14368-14375.	2.5	16
29	Hydrophobic Side Chain Dynamics of a Glutamate Receptor Ligand Binding Domain. <i>Journal of Biological Chemistry</i> , 2010, 285, 10154-10162.	3.4	16
30	Effects of Calcium on the Binding of Phencyclidine to Acetylcholine Receptor-Rich Membrane Fragments from <i>Torpedo californica</i> Electroplaque. <i>Journal of Neurochemistry</i> , 1983, 41, 1077-1084.	3.9	15
31	Noncompetitive antagonists induce cooperative AMPA receptor channel gating. <i>Journal of General Physiology</i> , 2019, 151, 156-173.	1.9	15
32	Semi-automated backbone resonance assignments of the extracellular ligand-binding domain of an ionotropic glutamate receptor. <i>Journal of Biomolecular NMR</i> , 2002, 22, 297-298.	2.8	13
33	Evidence for a skeleton in acetylcholine receptor-rich membranes from <i>Torpedo marmorata</i> electric organ. <i>FEBS Letters</i> , 1982, 145, 250-257.	2.8	12
34	Extended low-resolution structure of a <i>Leptospira</i> antigen offers high bactericidal antibody accessibility amenable to vaccine design. <i>ELife</i> , 2017, 6, .	6.0	12
35	The Structure of $(\hat{\alpha})$ -Kaitocephalin Bound to the Ligand Binding Domain of the (S)- \pm -Amino-3-hydroxy-5-methyl-4-isoxazolepropionic Acid (AMPA)/Glutamate Receptor, GluA2. <i>Journal of Biological Chemistry</i> , 2012, 287, 41007-41013.	3.4	10
36	The Loss of an Electrostatic Contact Unique to AMPA Receptor Ligand Binding Domain 2 Slows Channel Activation. <i>Biochemistry</i> , 2012, 51, 4015-4027.	2.5	9

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37	Role of Stoichiometry in the Dimer-Stabilizing Effect of AMPA Receptor Allosteric Modulators. <i>ACS Chemical Biology</i> , 2014, 9, 128-133.	3.4	9
38	A reevaluation of the mathematical models for simulating single-channel and whole-cell ionic currents. <i>Synapse</i> , 1988, 2, 97-103.	1.2	8
39	Structural Insights Into NMDA Ionotropic Glutamate Receptors via Molecular Modelling. <i>Journal of Molecular Modeling</i> , 2000, 6, 16-25.	1.8	8
40	Thermodynamics and Mechanism of the Interaction of Willardiine Partial Agonists with a Glutamate Receptor: Implications for Drug Development. <i>Biochemistry</i> , 2014, 53, 3790-3795.	2.5	8
41	Asn-265 of frog kainate binding protein is a functional glycosylation site: implications for the transmembrane topology of glutamate receptors. <i>FEBS Letters</i> , 1995, 368, 230-234.	2.8	7
42	Analysis of α -Bungarotoxin Binding in the Goldfish Central Nervous System. <i>Journal of Neurochemistry</i> , 1981, 37, 1586-1593.	3.9	6
43	Comparative screening of recombinant antigen thermostability for improved leptospirosis vaccine design. <i>Biotechnology and Bioengineering</i> , 2019, 116, 260-271.	3.3	6
44	Model Building Predicts an Additional Conformational Switch when GTP Binds to the CDC42HS Protein. <i>Protein and Peptide Letters</i> , 1994, 1, 84-91.	0.9	6
45	Molecular properties of local anesthetics as predictors of affinity for nicotinic acetylcholine receptors. <i>Journal of Neuroscience Research</i> , 2007, 85, 2943-2949.	2.9	5
46	Backbone chemical shift assignment of a glutamate receptor ligand binding domain in complexes with five partial agonists. <i>Biomolecular NMR Assignments</i> , 2007, 1, 241-243.	0.8	5
47	Effects of pineal factors on the action potentials of sympathetic neurons. <i>Cellular and Molecular Neurobiology</i> , 1986, 6, 381-395.	3.3	3
48	Surface water and groundwater analysis using aryl hydrocarbon and endocrine receptor biological assays and liquid chromatography-high resolution mass spectrometry in Susquehanna County, PA. <i>Environmental Sciences: Processes and Impacts</i> , 2019, 21, 988-998.	3.5	3
49	New Insights into the Mechanism of Ca ²⁺ -Dependent Inactivation of NMDA Receptors. <i>Biophysical Journal</i> , 2017, 113, 2131-2132.	0.5	2
50	Current Recording and Kinetic Analyses for Single AMPA Receptors. <i>Neuromethods</i> , 2016, , 257-272.	0.3	2
51	NMR Approaches to Functional Dynamics of Genetically Separated iGluR Domains. <i>Neuromethods</i> , 2016, , 101-118.	0.3	1
52	In Vitro Effects of (+)MK-801 (dizocilpine) and Memantine on β -Amyloid Peptides Linked to Alzheimer's Disease. <i>Biochemistry</i> , 2020, 59, 4517-4522.	2.5	0