Margot Ernst

List of Publications by Year in Descending Order

64 papers	1,376 citations	19 h-index	36 g-index
75 ext. papers	1,663 ext. citations	5.9 avg, IF	4.45 L-index

#	Paper	IF	Citations
64	6-Containing GABA Receptors: Functional Roles and Therapeutic Potentials.. *Pharmacological Reviews*, **2022**, 74, 238-270	22.5	1
63	A Benzodiazepine Ligand with Improved GABA Receptor 5-Subunit Selectivity Driven by Interactions with Loop C. *Molecular Pharmacology*, **2021**, 99, 39-48	4.3	0
62	Molecular basis of mood and cognitive adverse events elucidated via a combination of pharmacovigilance data mining and functional enrichment analysis. *Archives of Toxicology*, **2020**, 94, 2829-2845	5.8	0
61	Allosteric GABA Receptor Modulators-A Review on the Most Recent Heterocyclic Chemotypes and Their Synthetic Accessibility. *Molecules*, **2020**, 25,	4.8	13
60	GABA Receptor Ligands Often Interact with Binding Sites in the Transmembrane Domain and in the Extracellular Domain-Can the Promiscuity Code Be Cracked?. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	6
59	A novel de novo variant of GABRA1 causes increased sensitivity for GABA in vitro. *Scientific Reports*, **2020**, 10, 2379	4.9	5
58	Two Distinct Populations of 6-Containing GABAA-Receptors in Rat Cerebellum. *Frontiers in Synaptic Neuroscience*, **2020**, 12, 591129	3.5	6
57	Structure-Guided Computational Methods Predict Multiple Distinct Binding Modes for Pyrazoloquinolinones in GABA Receptors. *Frontiers in Neuroscience*, **2020**, 14, 611953	5.1	1
56	Defined concatenated GABA receptor constructs reveal dual action of pyrazoloquinolinone allosteric modulators. *Bioorganic and Medicinal Chemistry*, **2019**, 27, 3167-3178	3.4	6
55	Variations on a scaffold - Novel GABA receptor modulators. *European Journal of Medicinal Chemistry*, **2019**, 180, 340-349	6.8	1
54	Trigeminal neuropathic pain development and maintenance in rats are suppressed by a positive modulator of GABA receptors. *European Journal of Pain*, **2019**, 23, 973-984	3.7	18
53	Phenotypic variability of GABRA1-related epilepsy in monozygotic twins. *Annals of Clinical and Translational Neurology*, **2019**, 6, 2317-2322	5.3	3
52	A Novel Drug Target for Migraine: The GABAA Receptor Subtype in Trigeminal Ganglia. *FASEB Journal*, **2019**, 33, lb78	0.9	
51	Design and Synthesis of Novel Deuterated Ligands Functionally Selective for the Aminobutyric Acid Type A Receptor (GABAR) Subtype with Improved Metabolic Stability and Enhanced Bioavailability. *Journal of Medicinal Chemistry*, **2018**, 61, 2422-2446	8.3	26
50	Cerebellar subunit-containing GABA receptors: a novel therapeutic target for disrupted prepulse inhibition in neuropsychiatric disorders. *British Journal of Pharmacology*, **2018**, 175, 2414-2427	8.6	20
49	Negative allosteric modulation of alpha 5-containing GABA receptors engenders antidepressant-like effects and selectively prevents age-associated hyperactivity in tau-depositing mice. *Psychopharmacology*, **2018**, 235, 1151-1161	4.7	13
48	Expeditious synthesis of polyacetylenic water hemlock toxins and their effects on the major GABA receptor isoform. *Chemical Communications*, **2018**, 54, 2008-2011	5.8	7

47	The Benzodiazepine Binding Sites of GABA Receptors. *Trends in Pharmacological Sciences*, **2018**, 39, 659-671	13.1	89
46	Diversity matters: combinatorial information coding by GABA receptor subunits during spatial learning and its allosteric modulation. *Cellular Signalling*, **2018**, 50, 142-159	4.9	4
45	Engineered Flumazenil Recognition Site Provides Mechanistic Insight Governing Benzodiazepine Modulation in GABA Receptors. *ACS Chemical Biology*, **2018**, 13, 2040-2047	4.9	7
44	SAR-Guided Scoring Function and Mutational Validation Reveal the Binding Mode of CGS-8216 at the α1+/γ2- Benzodiazepine Site. *Journal of Chemical Information and Modeling*, **2018**, 58, 1682-1696	6.1	3
43	The α6 subunit-containing GABA receptor: A novel drug target for inhibition of trigeminal activation. *Neuropharmacology*, **2018**, 140, 1-13	5.5	14
42	Attaining in vivo selectivity of positive modulation of α2β3 GABA receptors in rats: A hard task!. *European Neuropsychopharmacology*, **2018**, 28, 903-914	1.2	3
41	The cerebellar α6 subunit-containing GABAA receptor: A novel therapeutic target for disrupted prepulse inhibition in neuropsychiatric disorders. *Proceedings for Annual Meeting of the Japanese Pharmacological Society*, **2018**, WCP2018, PO3-1-95	0	1
40	A Novel Target for Migraine Therapy: the α6 Subunit-Containing GABAA Receptor. *Proceedings for Annual Meeting of the Japanese Pharmacological Society*, **2018**, WCP2018, PO1-1-136	0	
39	Towards functional selectivity for α5β3 GABA receptors: a series of novel pyrazoloquinolinones. *British Journal of Pharmacology*, **2018**, 175, 419-428	8.6	18
38	Stereoselective Synthesis of the Isomers of Notoincisol A: Assigment of the Absolute Configuration of this Natural Product and Biological Evaluation. *Journal of Natural Products*, **2018**, 81, 2419-2428	4.9	0
37	Different Benzodiazepines Bind with Distinct Binding Modes to GABA Receptors. *ACS Chemical Biology*, **2018**, 13, 2033-2039	4.9	12
36	Pharmacological and antihyperalgesic properties of the novel α2/3 preferring GABA receptor ligand MP-III-024. *Brain Research Bulletin*, **2017**, 131, 62-69	3.9	20
35	Molecular tools for GABA receptors: High affinity ligands for α1-containing subtypes. *Scientific Reports*, **2017**, 7, 5674	4.9	19
34	γ subunits in GABA receptors are dispensable for GABA and diazepam action. *Scientific Reports*, **2017**, 7, 15498	4.9	15
33	Ester to amide substitution improves selectivity, efficacy and kinetic behavior of a benzodiazepine positive modulator of GABA receptors containing the α5 subunit. *European Journal of Pharmacology*, **2016**, 791, 433-443	5.3	18
32	Synthesis and Characterization of a Novel γ-Aminobutyric Acid Type A (GABA) Receptor Ligand That Combines Outstanding Metabolic Stability, Pharmacokinetics, and Anxiolytic Efficacy. *Journal of Medicinal Chemistry*, **2016**, 59, 10800-10806	8.3	34
31	First In Vivo Testing of Compounds Targeting Group 3 Medulloblastomas Using an Implantable Microdevice as a New Paradigm for Drug Development. *Journal of Biomedical Nanotechnology*, **2016**, 12, 1297-302	4	23
30	Targeting the γ-Aminobutyric Acid A Receptor α4 Subunit in Airway Smooth Muscle to Alleviate Bronchoconstriction. *American Journal of Respiratory Cell and Molecular Biology*, **2016**, 54, 546-53	5.7	16

29	Structural Studies of GABAA Receptor Binding Sites: Which Experimental Structure Tells us What?. *Frontiers in Molecular Neuroscience*, **2016**, 9, 44	6.1	57
28	Mutagenesis and computational docking studies support the existence of a histamine binding site at the extracellular β+β- interface of homooligomeric β GABAA receptors. *Neuropharmacology*, **2016**, 108, 252-63	5.5	9
27	Development of GABAA Receptor Subtype-Selective Imidazobenzodiazepines as Novel Asthma Treatments. *Molecular Pharmaceutics*, **2016**, 13, 2026-38	5.6	18
26	Metal-assisted synthesis of unsymmetrical magnolol and honokiol analogs and their biological assessment as GABAA receptor ligands. *Bioorganic and Medicinal Chemistry Letters*, **2015**, 25, 400-3	2.9	7
25	GABAA receptor subtypes: structural variety raises hope for new therapy concepts. *E-Neuroforum*, **2015**, 6, 97-103		2
24	GABAA Rezeptorsubtypen: Strukturelle Vielfalt gibt Hoffnung auf neue Therapiekonzepte. *Neuroforum*, **2015**, 21, 144-151	0.7	
23	Accelerated discovery of novel benzodiazepine ligands by experiment-guided virtual screening. *ACS Chemical Biology*, **2014**, 9, 1854-9	4.9	17
22	Unexpected Properties of Containing GABAA Receptors in Response to Ligands Interacting with the Site. *Neurochemical Research*, **2014**, 39, 1057-1067	4.6	11
21	A pentasymmetric open channel blocker for Cys-loop receptor channels. *PLoS ONE*, **2014**, 9, e106688	3.7	6
20	Comparing the high affinity benzodiazepine binding site with the homologous CGS 9895site in GABA-A receptors (1059.1). *FASEB Journal*, **2014**, 28, 1059.1	0.9	
19	Subtype selectivity of site ligands of GABAA receptors: identification of the first highly specific positive modulators at /3 receptors. *British Journal of Pharmacology*, **2013**, 169, 384-99	8.6	41
18	Identification of novel positive allosteric modulators and null modulators at the GABAA receptor interface. *British Journal of Pharmacology*, **2013**, 169, 371-83	8.6	39
17	Molecular analysis of the site for 2-arachidonylglycerol (2-AG) on the subunit of GABA(A) receptors. *Journal of Neurochemistry*, **2013**, 126, 29-36	6	19
16	A novel GABA(A) receptor pharmacology: drugs interacting with the (+) (-) interface. *British Journal of Pharmacology*, **2012**, 166, 476-85	8.6	62
15	Understanding subtype-selective allosteric modulation of GABAAreceptors. *BMC Pharmacology & Toxicology*, **2012**, 13,	2.6	78
14	Diazepam-bound GABAA receptor models identify new benzodiazepine binding-site ligands. *Nature Chemical Biology*, **2012**, 8, 455-64	11.7	150
13	Pentameric ligand-gated ion channel ELIC is activated by GABA and modulated by benzodiazepines. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, E3028-34	11.5	106
12	The GABAA receptor alpha+beta- interface: a novel target for subtype selective drugs. *Journal of Neuroscience*, **2011**, 31, 870-7	6.6	91

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11	Proximity-accelerated chemical coupling reaction in the benzodiazepine-binding site of gamma-aminobutyric acid type A receptors: superposition of different allosteric modulators. *Journal of Biological Chemistry*, **2007**, 282, 26316-25	5.4	28
10	Spontaneous cross-link of mutated alpha1 subunits during GABA(A) receptor assembly. *Journal of Biological Chemistry*, **2007**, 282, 4354-4363	5.4	9
9	Identification of amino acid residues important for assembly of GABA receptor alpha1 and gamma2 subunits. *Journal of Neurochemistry*, **2006**, 96, 983-95	6	15
8	Comparative models of GABAA receptor extracellular and transmembrane domains: important insights in pharmacology and function. *Molecular Pharmacology*, **2005**, 68, 1291-300	4.3	119
7	Affinity of various benzodiazepine site ligands in mice with a point mutation in the GABA(A) receptor gamma2 subunit. *Biochemical Pharmacology*, **2004**, 68, 1621-9	6	40
6	Raman and infrared vibrational spectra, ab initio calculations and normal coordinate analyses for 1,2-dimethyltetrachlorodisilane and 1,2-dimethyltetrachlorodisilane-d6. *Journal of Molecular Structure*, **1997**, 412, 83-95	3.4	12
5	Raman and infrared vibrational spectra, normal coordinate analysis and ab initio calculations of 1,1,2,2-tetrachlorodisilane and ab initio calculations of hexachlorodisilane. *Journal of Raman Spectroscopy*, **1997**, 28, 589-597	2.3	16
4	1,1,1,3,3,3-Hexabromotrisilane: structure and conformation determined by gas-phase electron diffraction, ab initio molecular orbital and molecular mechanics calculations, and vibrational spectroscopy. *Computational and Theoretical Chemistry*, **1995**, 372, 161-172		
3	GABAA Receptors1-12		
2	GABAA Receptor Modulators1-10		
1	Infrared and Raman Spectra, ab initio Calculations, and Rotational Isomerism of Methylated Disilanes241-247		