

# Thomas Biederer

## List of Publications by Year in descending order

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Version: 2024-02-01

57  
papers

6,117  
citations

136740

32  
h-index

182168

51  
g-index

100  
all docs

100  
docs citations

100  
times ranked

7406  
citing authors

#	ARTICLE	IF	CITATIONS
1	SynCAM, a Synaptic Adhesion Molecule That Drives Synapse Assembly. <i>Science</i> , 2002, 297, 1525-1531.	6.0	706
2	SynGO: An Evidence-Based, Expert-Curated Knowledge Base for the Synapse. <i>Neuron</i> , 2019, 103, 217-234.e4.	3.8	518
3	Molecular Cytogenetic Analysis and Resequencing of Contactin Associated Protein-Like 2 in Autism Spectrum Disorders. <i>American Journal of Human Genetics</i> , 2008, 82, 165-173.	2.6	494
4	Role of Cue1p in Ubiquitination and Degradation at the ER Surface. <i>Science</i> , 1997, 278, 1806-1809.	6.0	356
5	L-Histidine Decarboxylase and Tourette's Syndrome. <i>New England Journal of Medicine</i> , 2010, 362, 1901-1908.	13.9	304
6	Transcellular Nanoalignment of Synaptic Function. <i>Neuron</i> , 2017, 96, 680-696.	3.8	258
7	Degradation of subunits of the Sec61p complex, an integral component of the ER membrane, by the ubiquitin-proteasome pathway. <i>EMBO Journal</i> , 1996, 15, 2069-2076.	3.5	248
8	A family of RIM-binding proteins regulated by alternative splicing: Implications for the genesis of synaptic active zones. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 14464-14469.	3.3	224
9	Mints as Adaptors. <i>Journal of Biological Chemistry</i> , 2000, 275, 39803-39806.	1.6	220
10	Synaptic Cell Adhesion. <i>Cold Spring Harbor Perspectives in Biology</i> , 2012, 4, a005694-a005694.	2.3	198
11	SynCAMs Organize Synapses through Heterophilic Adhesion. <i>Journal of Neuroscience</i> , 2007, 27, 12516-12530.	1.7	180
12	Selective Capability of SynCAM and Neuroligin for Functional Synapse Assembly. <i>Journal of Neuroscience</i> , 2005, 25, 260-270.	1.7	172
13	Cell Adhesion Molecules in Synapse Formation. <i>Journal of Neuroscience</i> , 2004, 24, 9244-9249.	1.7	164
14	CASK and Protein 4.1 Support F-actin Nucleation on Neurexins. <i>Journal of Biological Chemistry</i> , 2001, 276, 47869-47876.	1.6	150
15	SynCAM 1 Adhesion Dynamically Regulates Synapse Number and Impacts Plasticity and Learning. <i>Neuron</i> , 2010, 68, 894-906.	3.8	149
16	Mixed-culture assays for analyzing neuronal synapse formation. <i>Nature Protocols</i> , 2007, 2, 670-676.	5.5	142
17	CASK Participates in Alternative Tripartite Complexes in which Mint 1 Competes for Binding with Caskin 1, a Novel CASK-Binding Protein. <i>Journal of Neuroscience</i> , 2002, 22, 4264-4273.	1.7	118
18	Regulation of APP-Dependent Transcription Complexes by Mint/X11s: Differential Functions of Mint Isoforms. <i>Journal of Neuroscience</i> , 2002, 22, 7340-7351.	1.7	117

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19	Bioinformatic characterization of the SynCAM family of immunoglobulin-like domain-containing adhesion molecules. <i>Genomics</i> , 2006, 87, 139-150.	1.3	104
20	Topographic Mapping of the Synaptic Cleft into Adhesive Nanodomains. <i>Neuron</i> , 2015, 88, 1165-1172.	3.8	102
21	The novel synaptogenic protein Farp1 links postsynaptic cytoskeletal dynamics and transsynaptic organization. <i>Journal of Cell Biology</i> , 2012, 199, 985-1001.	2.3	89
22	Cell-cell interactions in synaptogenesis. <i>Current Opinion in Neurobiology</i> , 2006, 16, 83-89.	2.0	88
23	Expression and adhesion profiles of SynCAM molecules indicate distinct neuronal functions. <i>Journal of Comparative Neurology</i> , 2008, 510, 47-67.	0.9	74
24	SynCAM 1 participates in axo-dendritic contact assembly and shapes neuronal growth cones. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 7568-7573.	3.3	72
25	Mapping the Proteome of the Synaptic Cleft through Proximity Labeling Reveals New Cleft Proteins. <i>Proteomes</i> , 2018, 6, 48.	1.7	62
26	Signaling by synaptogenic molecules. <i>Current Opinion in Neurobiology</i> , 2008, 18, 261-269.	2.0	59
27	Lateral assembly of the immunoglobulin protein SynCAM 1 controls its adhesive function and instructs synapse formation. <i>EMBO Journal</i> , 2011, 30, 4728-4738.	3.5	59
28	N-Glycosylation at the SynCAM (Synaptic Cell Adhesion Molecule) Immunoglobulin Interface Modulates Synaptic Adhesion. <i>Journal of Biological Chemistry</i> , 2010, 285, 34864-34874.	1.6	58
29	The Synaptic Cell Adhesion Molecule, SynCAM1, Mediates Astrocyte-to-Astrocyte and Astrocyte-to-GnRH Neuron Adhesiveness in the Mouse Hypothalamus. <i>Endocrinology</i> , 2011, 152, 2353-2363.	1.4	44
30	Activity-Dependent Regulation of Dendritic Complexity by Semaphorin 3A through Farp1. <i>Journal of Neuroscience</i> , 2014, 34, 7999-8009.	1.7	43
31	Subsynaptic positioning of AMPARs by LRRTM2 controls synaptic strength. <i>Science Advances</i> , 2021, 7, .	4.7	43
32	Structural organization and function of mouse photoreceptor ribbon synapses involve the immunoglobulin protein synaptic cell adhesion molecule 1. <i>Journal of Comparative Neurology</i> , 2014, 522, 900-920.	0.9	41
33	Three-dimensional adaptive optical nanoscopy for thick specimen imaging at sub-50-nm resolution. <i>Nature Methods</i> , 2021, 18, 688-693.	9.0	39
34	SynCAM1, a Synaptic Adhesion Molecule, Is Expressed in Astrocytes and Contributes to erbB4 Receptor-Mediated Control of Female Sexual Development. <i>Endocrinology</i> , 2011, 152, 2364-2376.	1.4	38
35	Synapse-Selective Control of Cortical Maturation and Plasticity by Parvalbumin-Autonomous Action of SynCAM 1. <i>Cell Reports</i> , 2019, 26, 381-393.e6.	2.9	38
36	NeuroD2 regulates the development of hippocampal mossy fiber synapses. <i>Neural Development</i> , 2012, 7, 9.	1.1	36

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37	Neuronal adhesion and synapse organization in recovery after brain injury. <i>Future Neurology</i> , 2013, 8, 555-567.	0.9	34
38	Excitatory Synaptic Drive and Feedforward Inhibition in the Hippocampal CA3 Circuit Are Regulated by SynCAM 1. <i>Journal of Neuroscience</i> , 2016, 36, 7464-7475.	1.7	32
39	The Synaptic Adhesion Molecule SynCAM 1 Contributes to Cocaine Effects on Synapse Structure and Psychostimulant Behavior. <i>Neuropsychopharmacology</i> , 2013, 38, 628-638.	2.8	30
40	Emerging Roles of Synapse Organizers in the Regulation of Critical Periods. <i>Neural Plasticity</i> , 2019, 2019, 1-9.	1.0	27
41	A short N-terminal domain of HDAC4 preserves photoreceptors and restores visual function in retinitis pigmentosa. <i>Nature Communications</i> , 2015, 6, 8005.	5.8	23
42	Social Stimulus Causes Aberrant Activation of the Medial Prefrontal Cortex in a Mouse Model With Autism-Like Behaviors. <i>Frontiers in Synaptic Neuroscience</i> , 2018, 10, 35.	1.3	23
43	Reduced Insulin/Insulin-Like Growth Factor Receptor Signaling Mitigates Defective Dendrite Morphogenesis in Mutants of the ER Stress Sensor IRE-1. <i>PLoS Genetics</i> , 2017, 13, e1006579.	1.5	22
44	Synaptic Connectivity and Cortical Maturation Are Promoted by the $\omega$ -3 Fatty Acid Docosahexaenoic Acid. <i>Cerebral Cortex</i> , 2020, 30, 226-240.	1.6	15
45	A synaptomic analysis reveals dopamine hub synapses in the mouse striatum. <i>Nature Communications</i> , 2022, 13, .	5.8	14
46	Hooking up new synapses. <i>Nature Neuroscience</i> , 2006, 9, 1203-1204.	7.1	12
47	Structural analyses of FERM domain-mediated membrane localization of FARP1. <i>Scientific Reports</i> , 2018, 8, 10477.	1.6	12
48	Synaptic recognition molecules in development and disease. <i>Current Topics in Developmental Biology</i> , 2021, 142, 319-370.	1.0	12
49	FARP1 deletion is associated with lack of response to autism treatment by early start denver model in a multiplex family. <i>Molecular Genetics &amp; Genomic Medicine</i> , 2020, 8, e1373.	0.6	10
50	Polysialic acid: A veteran sugar with a new site of action in the brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 10335-10336.	3.3	9
51	Progress from the Postsynaptic Side: Signaling in Synaptic Differentiation. <i>Science Signaling</i> , 2005, 2005, pe9-pe9.	1.6	8
52	Open Up to Make New Contacts: Caldendrin Senses Postsynaptic Calcium Influx to Dynamically Organize Dendritic Spines. <i>Neuron</i> , 2018, 97, 994-996.	3.8	1
53	Identification of Endogenous/transfected Synaptic Proteins in Primary Neuronal Culture by a High-yield Immunogold Labeling. <i>Microscopy and Microanalysis</i> , 2003, 9, 1498-1499.	0.2	0
54	Synaptic uSIRPation: the active neuron reigns over presynaptic partners. <i>Nature Neuroscience</i> , 2013, 16, 1361-1362.	7.1	0

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55	How a Piggyback Synapse Listens in to Tune Excitatory Terminals. <i>Neuron</i> , 2016, 90, 1143-1145.	3.8	0
56	Specific N-glycans on SynCAM Ig proteins regulate synaptic adhesion and synapse development. <i>FASEB Journal</i> , 2012, 26, 232.2.	0.2	0
57	SynCAM in Formation and Function of Synaptic Specializations. , 2006, , 125-135.		0