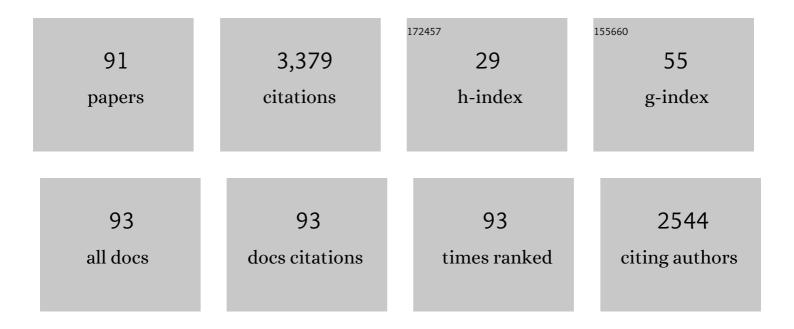
## Naweed I Syed

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/5327071/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	A glia-derived acetylcholine-binding protein that modulates synaptic transmission. Nature, 2001, 411, 261-268.	27.8	572
2	Silver nanoparticles (AgNPs) cause degeneration of cytoskeleton and disrupt synaptic machinery of cultured cortical neurons. Molecular Brain, 2013, 6, 29.	2.6	143
3	Neural Changes after Operant Conditioning of the Aerial Respiratory Behavior in <i>Lymnaea stagnalis</i> . Journal of Neuroscience, 1999, 19, 1836-1843.	3.6	133
4	The Soma of RPeD1 Must Be Present for Long-Term Memory Formation of Associative Learning in <i>Lymnaea</i> . Journal of Neurophysiology, 2002, 88, 1584-1591.	1.8	130
5	Operant Conditioning in <i>Lymnaea</i> : Evidence for Intermediate- and Long-term Memory. Learning and Memory, 2000, 7, 140-150.	1.3	123
6	Retrograde degeneration of neurite membrane structural integrity of nerve growth cones following in vitro exposure to mercury. NeuroReport, 2001, 12, 733-737.	1.2	100
7	Nitric oxide synthase-immunoreactive cells in the CNS and periphery of Lymnaea. NeuroReport, 1994, 5, 1277-1280.	1.2	92
8	<i>In Vitro</i> Synaptogenesis between the Somata of Identified <i>Lymnaea</i> Neurons Requires Protein Synthesis But Not Extrinsic Growth Factors or Substrate Adhesion Molecules. Journal of Neuroscience, 1997, 17, 7839-7849.	3.6	91
9	Calcium Channel Structural Determinants of Synaptic Transmission between Identified Invertebrate Neurons. Journal of Biological Chemistry, 2003, 278, 4258-4267.	3.4	88
10	Changes in the Activity of a CPG Neuron After the Reinforcement of an Operantly Conditioned Behavior in <i>Lymnaea</i> . Journal of Neurophysiology, 2002, 88, 1915-1923.	1.8	86
11	Local Synthesis of Actin-Binding Protein Â-Thymosin Regulates Neurite Outgrowth. Journal of Neuroscience, 2006, 26, 152-157.	3.6	75
12	Excitatory Synaptogenesis between IdentifiedLymnaeaNeurons Requires Extrinsic Trophic Factors and Is Mediated by Receptor Tyrosine Kinases. Journal of Neuroscience, 1999, 19, 9306-9312.	3.6	70
13	Synaptogenesis in the CNS: An Odyssey from Wiring Together to Firing Together. Journal of Physiology, 2003, 552, 1-11.	2.9	62
14	Functional Implications of Neurotransmitter Expression during Axonal Regeneration: Serotonin, But Not Peptides, Auto-Regulate Axon Growth of an Identified Central Neuron. Journal of Neuroscience, 2001, 21, 5597-5606.	3.6	61
15	Neuron-Semiconductor Chip with Chemical Synapse between Identified Neurons. Physical Review Letters, 2004, 92, 038102.	7.8	60
16	Identification and Functional Expression of a Family of Nicotinic Acetylcholine Receptor Subunits in the Central Nervous System of the Mollusc Lymnaea stagnalis. Journal of Biological Chemistry, 2006, 281, 1680-1691.	3.4	59
17	Electrophysiological Differences in the CPG Aerial Respiratory Behavior Between Juvenile and Adult Lymnaea. Journal of Neurophysiology, 2003, 90, 983-992.	1.8	57
18	In Situ and In Vitro Identification and Characterization of Cardiac Ganglion Neurons in the Crab, <i>Carcinus maenas</i> . Journal of Neurophysiology, 1999, 81, 2964-2976.	1.8	54

#	Article	IF	CITATIONS
19	Structure and Function of AChBP, Homologue of the Ligand-Binding Domain of the Nicotinic Acetylcholine Receptor. Annals of the New York Academy of Sciences, 2003, 998, 81-92.	3.8	54
20	Differential Proteomics Reveals Multiple Components in Retrogradely Transported Axoplasm After Nerve Injury. Molecular and Cellular Proteomics, 2004, 3, 510-520.	3.8	54
21	Trophic Factor-Induced Excitatory Synaptogenesis Involves Postsynaptic Modulation of Nicotinic Acetylcholine Receptors. Journal of Neuroscience, 2002, 22, 505-514.	3.6	45
22	Transmitter–Receptor Interactions between Growth Cones of IdentifiedLymnaeaNeurons Determine Target Cell SelectionIn Vitro. Journal of Neuroscience, 2000, 20, 8077-8086.	3.6	44
23	Trophic Factor-Induced Plasticity of Synaptic Connections Between Identified <i>Lymnaea</i> Neurons. Learning and Memory, 1999, 6, 307-316.	1.3	44
24	Peptidomics of a Single Identified Neuron Reveals Diversity of Multiple Neuropeptides with Convergent Actions on Cellular Excitability. Journal of Neuroscience, 2006, 26, 518-529.	3.6	39
25	The mitochondrial division inhibitor Mdivi-1 rescues mammalian neurons from anesthetic-induced cytotoxicity. Molecular Brain, 2016, 9, 35.	2.6	38
26	In Vitro Characterization of L-Type Calcium Channels and Their Contribution to Firing Behavior in Invertebrate Respiratory Neurons. Journal of Neurophysiology, 2006, 95, 42-52.	1.8	36
27	Synapse Formation between Central Neurons Requires Postsynaptic Expression of the <i>MEN1</i> Tumor Suppressor Gene. Journal of Neuroscience, 2001, 21, RC161-RC161.	3.6	35
28	Anesthetic Treatment Blocks Synaptogenesis But Not Neuronal Regeneration of Cultured Lymnaea Neurons. Journal of Neurophysiology, 2003, 90, 2232-2239.	1.8	35
29	Ciliary neurotrophic factor, unlike nerve growth factor, supports neurite outgrowth but not synapse formation by adultLymnaea neurons. , 1996, 29, 293-303.		34
30	Development of Ca2+hotspots betweenLymnaeaneurons during synaptogenesis. Journal of Physiology, 2002, 539, 53-65.	2.9	32
31	Long-Term Memory Survives Nerve Injury and the Subsequent Regeneration Process. Learning and Memory, 2003, 10, 44-54.	1.3	29
32	Neurotrophic activities of trk receptors conserved over 600 million years of evolution. Journal of Neurobiology, 2004, 60, 12-20.	3.6	28
33	An identified central pattern-generating neuron co-ordinates sensory-motor components of respiratory behavior inLymnaea. European Journal of Neuroscience, 2006, 23, 94-104.	2.6	27
34	Anesthetics: from modes of action to unconsciousness and neurotoxicity. Journal of Neurophysiology, 2019, 122, 760-787.	1.8	27
35	Synapse Number and Synaptic Efficacy Are Regulated by Presynaptic cAMP and Protein Kinase A. Journal of Neuroscience, 2003, 23, 4146-4155.	3.6	25
36	Quercetin Targets Cysteine String Protein (CSPα) and Impairs Synaptic Transmission. PLoS ONE, 2010, 5, e11045.	2.5	25

#	Article	IF	CITATIONS
37	Neuronal networks and synaptic plasticity: understanding complex system dynamics by interfacing neurons with silicon technologies. Journal of Experimental Biology, 2006, 209, 2312-2319.	1.7	24
38	A novel silicon patchâ€clamp chip permits highâ€fidelity recording of ion channel activity from functionally defined neurons. Biotechnology and Bioengineering, 2010, 107, 593-600.	3.3	24
39	Antidepressant fluoxetine suppresses neuronal growth from both vertebrate and invertebrate neurons and perturbs synapse formation between <i>Lymnaea</i> neurons. European Journal of Neuroscience, 2010, 31, 994-1005.	2.6	24
40	Uncoupling of Calcium Channel α1 and β Subunits in Developing Neurons. Journal of Biological Chemistry, 2004, 279, 41157-41167.	3.4	23
41	From Understanding Cellular Function to Novel Drug Discovery: The Role of Planar Patch-Clamp Array Chip Technology. Frontiers in Pharmacology, 2011, 2, 51.	3.5	23
42	Different extrinsic trophic factors regulate neurite outgrowth and synapse formation between identifiedLymnaea neurons. Journal of Neurobiology, 2000, 44, 20-30.	3.6	22
43	Trophic Factor-Induced Intracellular Calcium Oscillations Are Required for the Expression of Postsynaptic Acetylcholine Receptors during Synapse Formation between Lymnaea Neurons. Journal of Neuroscience, 2009, 29, 2167-2176.	3.6	22
44	Target cell contact suppresses neurite outgrowth from soma-soma pairedLymnaea neurons. , 2000, 42, 357-369.		21
45	Synapse Formation Between Isolated Axons Requires Presynaptic Soma and Redistribution of Postsynaptic AChRs. Journal of Neurophysiology, 2003, 89, 2611-2619.	1.8	21
46	Taurine Promotes Neurite Outgrowth and Synapse Development of Both Vertebrate and Invertebrate Central Neurons. Frontiers in Synaptic Neuroscience, 2020, 12, 29.	2.5	21
47	Halothane affects both inhibitory and excitatory synaptic transmission at a single identified molluscan synapse, in vivo and in vitro. Brain Research, 1996, 714, 38-48.	2.2	20
48	High-fidelity patch-clamp recordings from neurons cultured on a polymer microchip. Biomedical Microdevices, 2010, 12, 977-985.	2.8	19
49	Lidocaine treatment during synapse reformation periods permanently inhibits NGF-induced excitation in an identified reconstructed synapse of Lymnaea stagnalis. Journal of Anesthesia, 2012, 26, 45-53.	1.7	19
50	General anesthetics and cytotoxicity: possible implications for brain health. Drug and Chemical Toxicology, 2017, 40, 241-249.	2.3	18
51	Specific In vitro synaptogenesis between identified Lymnaea and Helisoma neurons. NeuroReport, 1992, 3, 793-796.	1.2	16
52	Recordings of cultured neurons and synaptic activity using patch-clamp chips. Journal of Neural Engineering, 2011, 8, 034002.	3.5	16
53	A novel form of presynaptic CaMKII-dependent short-term potentiation between Lymnaea neurons. European Journal of Neuroscience, 2011, 34, 569-577.	2.6	16
54	Synapse Formation and Plasticity: The Roles of Local Protein Synthesis. Neuroscientist, 2005, 11, 228-237.	3.5	15

#	Article	IF	CITATIONS
55	Peripheral oxygen-sensing cells directly modulate the output of an identified respiratory central pattern generating neuron. European Journal of Neuroscience, 2007, 25, 3537-3550.	2.6	15
56	A novel bio-mimicking, planar nano-edge microelectrode enables enhanced long-term neural recording. Scientific Reports, 2016, 6, 34553.	3.3	15
57	A tuned gelatin methacryloyl (GelMA) hydrogel facilitates myelination of dorsal root ganglia neurons in vitro. Materials Science and Engineering C, 2021, 126, 112131.	7.3	15
58	Postsynaptic expression of an epidermal growth factor receptor regulates cholinergic synapse formation between identified molluscan neurons. European Journal of Neuroscience, 2008, 27, 2043-2056.	2.6	14
59	Molluscan neurons in culture: shedding light on synapse formation and plasticity. Journal of Molecular Histology, 2012, 43, 383-399.	2.2	14
60	Menin: A Tumor Suppressor That Mediates Postsynaptic Receptor Expression and Synaptogenesis between Central Neurons of Lymnaea stagnalis. PLoS ONE, 2014, 9, e111103.	2.5	14
61	Effect of planar microelectrode geometry on neuron stimulation: Finite element modeling and experimental validation of the efficient electrode shape. Journal of Neuroscience Methods, 2015, 248, 51-58.	2.5	14
62	Two proteolytic fragments of menin coordinate the nuclear transcription and postsynaptic clustering of neurotransmitter receptors during synaptogenesis between Lymnaea neurons. Scientific Reports, 2016, 6, 31779.	3.3	14
63	Mechanisms of Anesthetic Action and Neurotoxicity: Lessons from Molluscs. Frontiers in Physiology, 2017, 8, 1138.	2.8	14
64	Sevoflurane Induced Suppression of Inhibitory Synaptic Transmission Between Soma-Soma Paired <i>Lymnaea</i> Neurons. Journal of Neurophysiology, 1999, 82, 2812-2819.	1.8	13
65	The antidepressant fluoxetine but not citalopram suppresses synapse formation and synaptic transmission between <i>Lymnaea</i> neurons by perturbing presynaptic and postsynaptic machinery. European Journal of Neuroscience, 2011, 34, 221-234.	2.6	11
66	Tumor suppressor menin is required for subunit-specific nAChR α5 transcription and nAChR-dependent presynaptic facilitation in cultured mouse hippocampal neurons. Scientific Reports, 2017, 7, 1768.	3.3	11
67	A Novel Approach to Primary Cell Culture for Octopus vulgaris Neurons. Frontiers in Physiology, 2018, 9, 220.	2.8	11
68	A neuronal network from the mollusc Lymnaea stagnalis. Brain Research, 1994, 645, 201-214.	2.2	10
69	Ryanodine receptor-transmitter release site coupling increases quantal size in a synapse-specific manner. European Journal of Neuroscience, 2006, 24, 1591-1605.	2.6	10
70	Trophic Factor-Induced Activity â€~Signature' Regulates the Functional Expression of Postsynaptic Excitatory Acetylcholine Receptors Required for Synaptogenesis. Scientific Reports, 2015, 5, 9523.	3.3	10
71	A technique for the primary dissociation of neurons from restricted regions of the vertebrate CNS. Journal of Neuroscience Methods, 1995, 56, 57-70.	2.5	9
72	Neuronal Menin Overexpression Rescues Learning and Memory Phenotype in CA1-Specific α7 nAChRs KD Mice. Cells, 2021, 10, 3286.	4.1	9

#	Article	IF	CITATIONS
73	Transplantation and restoration of functional synapses between an identified neuron and its targets in the intact brain ofLymnaea stagnalis. Synapse, 2004, 51, 186-193.	1.2	8
74	A PVAc-Based Benzophenone-8 Filter as an Alternative to Commercially Available Dichroic Filters for Monitoring Calcium Activity in Live Neurons via Fura-2 AM. IEEE Photonics Journal, 2012, 4, 1004-1012.	2.0	8
75	The Mock Academic Faculty Position Competition: A Pilot Professional and Career Development Opportunity for Postdoctoral Fellows. Academic Medicine, 2016, 91, 1661-1665.	1.6	8
76	A planar microelectrode array for simultaneous detection of electrically evoked dopamine release from distinct locations of a single isolated neuron. Analyst, The, 2013, 138, 2833.	3.5	7
77	Neuronal Somata and Extrasomal Compartments Play Distinct Roles during Synapse Formation between Lymnaea Neurons. Journal of Neuroscience, 2014, 34, 11304-11315.	3.6	7
78	Uncovering the Cellular and Molecular Mechanisms of Synapse Formation and Functional Specificity Using Central Neurons of <i>Lymnaea stagnalis</i> . ACS Chemical Neuroscience, 2018, 9, 1928-1938.	3.5	6
79	Rhythmic activities of isolated and clustered pacemaker neurons and photoreceptors ofAplysia retina in culture. , 1996, 31, 16-28.		5
80	Control of Breathing in Invertebrate Model Systems. , 2012, 2, 1745-1766.		5
81	Neurotrophic factors and target-specific retrograde signaling interactions define the specificity of classical and neuropeptide cotransmitter release at identified Lymnaea synapses. Scientific Reports, 2020, 10, 13526.	3.3	4
82	Neuronal Mechanisms of Oxygen Chemoreception: An Invertebrate Perspective. Advances in Experimental Medicine and Biology, 2012, 758, 7-17.	1.6	4
83	Three dimensional microelectrodes enable high signal and spatial resolution for neural seizure recordings in brain slices and freely behaving animals. Scientific Reports, 2021, 11, 21952.	3.3	4
84	Target Cell Selection and Specific Synapse Formation By Identified Ly'Mnaea Neurons in Vitro. Animal Biology, 1993, 44, 327-338.	0.4	3
85	Specificity of synapse formation betweenLymnaea heart motor neuron and muscle fiber is maintained in vitro in a soma-muscle configuration. Synapse, 2002, 46, 66-71.	1.2	3
86	Culturing and Electrophysiology of Cells on NRCC Patch-clamp Chips. Journal of Visualized Experiments, 2012, , .	0.3	3
87	Graded hypoxia acts through a network of distributed peripheral oxygen chemoreceptors to produce changes in respiratory behaviour and plasticity. European Journal of Neuroscience, 2015, 42, 1858-1871.	2.6	3
88	Spatiotemporal Patterns of Menin Localization in Developing Murine Brain: Co-Expression with the Elements of Cholinergic Synaptic Machinery. Cells, 2021, 10, 1215.	4.1	3
89	A novel approach reveals temporal patterns of synaptogenesis between the isolated growth cones of <i>Lymnaea</i> neurons. European Journal of Neuroscience, 2010, 32, 1442-1451.	2.6	2
90	Synaptic Metaplasticity Underlies Tetanic Potentiation in Lymnaea: A Novel Paradigm. PLoS ONE, 2013, 8, e78056.	2.5	2

#	Article	IF	CITATIONS
91	Linear oblique craniectomy: A novel method of minimally invasive subdural grid insertion. Clinical and Translational Neuroscience, 2020, 4, 2514183X2097308.	0.9	0