

# Fabio Benfenati

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

216  
papers

10,696  
citations

55  
h-index

97  
g-index

234  
ext. papers

12,565  
ext. citations

8.5  
avg, IF

5.96  
L-index

#	Paper	IF	Citations
216	Kidins220/ARMS modulates brain morphology and anxiety-like traits in adult mice.. <i>Cell Death Discovery</i> , <b>2022</b> , 8, 58	6.9	
215	Pathophysiology of Paroxysmal Dyskinesia <b>2021</b> , 95-108		
214	REST/NRSF drives homeostatic plasticity of inhibitory synapses in a target-dependent fashion. <i>ELife</i> , <b>2021</b> , 10,	8.9	2
213	Reply to Comment on Conopeptide-Functionalized Nanoparticles Selectively Antagonize Extrasynaptic N-Methyl-d-aspartate Receptors and Protect Hippocampal Neurons from Excitotoxicity In Vitro. <i>ACS Nano</i> , <b>2021</b> , 15, 15409-15417	16.7	
212	Isobaric Labeling Proteomics Allows a High-Throughput Investigation of Protein Corona Orientation. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 784-791	7.8	6
211	The physics of plasma membrane photostimulation. <i>APL Materials</i> , <b>2021</b> , 9, 030901	5.7	2
210	Neuronal Networks: Interactions between Primary Neurons and Graphene Films with Different Structure and Electrical Conductivity (Adv. Funct. Mater. 11/2021). <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2170075	15.6	
209	The enhancement of activity rescues the establishment of Mecp2 null neuronal phenotypes. <i>EMBO Molecular Medicine</i> , <b>2021</b> , 13, e12433	12	2
208	An interaction between PRRT2 and Na/K ATPase contributes to the control of neuronal excitability. <i>Cell Death and Disease</i> , <b>2021</b> , 12, 292	9.8	3
207	Increased responsiveness at the cerebellar input stage in the PRRT2 knockout model of paroxysmal kinesigenic dyskinesia. <i>Neurobiology of Disease</i> , <b>2021</b> , 152, 105275	7.5	5
206	PRRT2 modulates presynaptic Ca influx by interacting with P/Q-type channels. <i>Cell Reports</i> , <b>2021</b> , 35, 109248	10.6	2
205	Clinical and Genetic Features in Patients With Reflex Bathing Epilepsy. <i>Neurology</i> , <b>2021</b> , 97, e577-e586	6.5	2
204	Dysfunction of the serotonergic system in the brain of synapsin triple knockout mice is associated with behavioral abnormalities resembling synapsin-related human pathologies. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , <b>2021</b> , 105, 110135	5.5	5
203	Stability Studies of New Caged bis-deoxy-coelenterazine Derivatives and Their Potential Use as Cellular pH Probes. <i>Photochemistry and Photobiology</i> , <b>2021</b> , 97, 343-352	3.6	
202	Interactions between Primary Neurons and Graphene Films with Different Structure and Electrical Conductivity. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2005300	15.6	9
201	Giving names to the actors of synaptic transmission: The long journey from synaptic vesicles to neural plasticity. <i>Advances in Pharmacology</i> , <b>2021</b> , 90, 19-37	5.7	
200	Hydrogenated Graphene Improves Neuronal Network Maturation and Excitatory Transmission. <i>Advanced Biology</i> , <b>2021</b> , 5, e2000177		4

199	Neuroinflammation induces synaptic scaling through IL-1 $\beta$ -mediated activation of the transcriptional repressor REST/NRSF. <i>Cell Death and Disease</i> , <b>2021</b> , 12, 180	9.8	8
198	Structural Mechanism of $\beta$ Currents in a Mutated Kv7.2 Voltage Sensor Domain from Molecular Dynamics Simulations. <i>Journal of Chemical Information and Modeling</i> , <b>2021</b> , 61, 1354-1367	6.1	1
197	A developmental stage- and Kidins220-dependent switch in astrocyte responsiveness to brain-derived neurotrophic factor. <i>Journal of Cell Science</i> , <b>2021</b> , 134,	5.3	2
196	Graphene Nanoplatelets Render Poly(3-Hydroxybutyrate) a Suitable Scaffold to Promote Neuronal Network Development. <i>Frontiers in Neuroscience</i> , <b>2021</b> , 15, 731198	5.1	1
195	The lipid composition of few layers graphene and graphene oxide biomolecular corona. <i>Carbon</i> , <b>2021</b> , 185, 591-591	10.4	2
194	REST/NRSF deficiency impairs autophagy and leads to cellular senescence in neurons. <i>Aging Cell</i> , <b>2021</b> , 20, e13471	9.9	3
193	An updated reappraisal of synapsins: structure, function and role in neurological and psychiatric disorders. <i>Neuroscience and Biobehavioral Reviews</i> , <b>2021</b> , 130, 33-60	9	6
192	Expanding the Nude SCID/CID Phenotype Associated with FOXP1 Homozygous, Compound Heterozygous, or Heterozygous Mutations. <i>Journal of Clinical Immunology</i> , <b>2021</b> , 41, 756-768	5.7	4
191	Reply to: Questions about the role of P3HT nanoparticles in retinal stimulation. <i>Nature Nanotechnology</i> , <b>2021</b> ,	28.7	1
190	Brain-Inspired Structural Plasticity through Reweighting and Rewiring in Multi-Terminal Self-Organizing Memristive Nanowire Networks. <i>Advanced Intelligent Systems</i> , <b>2020</b> , 2, 2000096	6	27
189	Conopeptide-Functionalized Nanoparticles Selectively Antagonize Extrasynaptic -Methyl-d-aspartate Receptors and Protect Hippocampal Neurons from Excitotoxicity. <i>ACS Nano</i> , <b>2020</b> , 14, 6866-6877	16.7	7
188	Membrane Environment Enables Ultrafast Isomerization of Amphiphilic Azobenzene. <i>Advanced Science</i> , <b>2020</b> , 7, 1903241	13.6	14
187	Emerging Role of the Autophagy/Lysosomal Degradative Pathway in Neurodevelopmental Disorders With Epilepsy. <i>Frontiers in Cellular Neuroscience</i> , <b>2020</b> , 14, 39	6.1	9
186	Subretinally injected semiconducting polymer nanoparticles rescue vision in a rat model of retinal dystrophy. <i>Nature Nanotechnology</i> , <b>2020</b> , 15, 698-708	28.7	55
185	Clinical spectrum and genotype-phenotype correlations in PRRT2 Italian patients. <i>European Journal of Paediatric Neurology</i> , <b>2020</b> , 28, 193-197	3.8	10
184	Alpha-synuclein/synapsin III pathological interplay boosts the motor response to methylphenidate. <i>Neurobiology of Disease</i> , <b>2020</b> , 138, 104789	7.5	5
183	A hybrid P3HT-Graphene interface for efficient photostimulation of neurons. <i>Carbon</i> , <b>2020</b> , 162, 308-317	10.4	17
182	The porcine iodoacetic acid model of retinal degeneration: Morpho-functional characterization of the visual system. <i>Experimental Eye Research</i> , <b>2020</b> , 193, 107979	3.7	2

181	Acute knockdown of Depdc5 leads to synaptic defects in mTOR-related epileptogenesis. <i>Neurobiology of Disease</i> , <b>2020</b> , 139, 104822	7.5	12
180	Progress of Induced Pluripotent Stem Cell Technologies to Understand Genetic Epilepsy. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	6
179	Genotype-phenotype correlations in patients with de novo pathogenic variants. <i>Neurology: Genetics</i> , <b>2020</b> , 6, e528	3.8	9
178	Neuronal firing modulation by a membrane-targeted photoswitch. <i>Nature Nanotechnology</i> , <b>2020</b> , 15, 296-306	28.7	38
177	Proline-rich transmembrane protein 2 (PRRT2) regulates the actin cytoskeleton during synaptogenesis. <i>Cell Death and Disease</i> , <b>2020</b> , 11, 856	9.8	3
176	Biocompatibility of a Conjugated Polymer Retinal Prosthesis in the Domestic Pig. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2020</b> , 8, 579141	5.8	4
175	Modulation of neuronal firing: what role can nanotechnology play?. <i>Nanomedicine</i> , <b>2020</b> , 15, 2895-2900	5.6	
174	Presynaptic L-Type Ca Channels Increase Glutamate Release Probability and Excitatory Strength in the Hippocampus during Chronic Neuroinflammation. <i>Journal of Neuroscience</i> , <b>2020</b> , 40, 6825-6841	6.6	4
173	Engineering REST-Specific Synthetic PUF Proteins to Control Neuronal Gene Expression: A Combined Experimental and Computational Study. <i>ACS Synthetic Biology</i> , <b>2020</b> , 9, 2039-2054	5.7	2
172	Brain-Inspired Structural Plasticity through Reweighting and Rewiring in Multi-Terminal Self-Organizing Memristive Nanowire Networks. <i>Advanced Intelligent Systems</i> , <b>2020</b> , 2, 2080071	6	2
171	Kidins220/ARMS controls astrocyte calcium signaling and neuron-astrocyte communication. <i>Cell Death and Differentiation</i> , <b>2020</b> , 27, 1505-1519	12.7	9
170	dCas9-Based Scn1a Gene Activation Restores Inhibitory Interneuron Excitability and Attenuates Seizures in Dravet Syndrome Mice. <i>Molecular Therapy</i> , <b>2020</b> , 28, 235-253	11.7	74
169	Neurite-Enriched MicroRNA-218 Stimulates Translation of the GluA2 Subunit and Increases Excitatory Synaptic Strength. <i>Molecular Neurobiology</i> , <b>2019</b> , 56, 5701-5714	6.2	22
168	Photochemistry of Organic Retinal Prostheses. <i>Annual Review of Physical Chemistry</i> , <b>2019</b> , 70, 99-121	15.7	10
167	Synapsin I Controls Synaptic Maturation of Long-Range Projections in the Lateral Amygdala in a Targeted Selective Fashion. <i>Frontiers in Cellular Neuroscience</i> , <b>2019</b> , 13, 220	6.1	5
166	Leucine-rich repeat kinase 2 phosphorylation on synapsin I regulates glutamate release at pre-synaptic sites. <i>Journal of Neurochemistry</i> , <b>2019</b> , 150, 264-281	6	11
165	Neuronal Cultures and Nanomaterials. <i>Advances in Neurobiology</i> , <b>2019</b> , 22, 51-79	2.1	4
164	An Increase in Membrane Cholesterol by Graphene Oxide Disrupts Calcium Homeostasis in Primary Astrocytes. <i>Small</i> , <b>2019</b> , 15, e1900147	11	24

163	TBC1D24 regulates axonal outgrowth and membrane trafficking at the growth cone in rodent and human neurons. <i>Cell Death and Differentiation</i> , <b>2019</b> , 26, 2464-2478	12.7	11
162	1H NMR Spectroscopy Characterization of Porcine Vitreous Humor in Physiological and Photoreceptor Degeneration Conditions <b>2019</b> , 60, 741-747		2
161	Spike-Related Electrophysiological Identification of Cultured Hippocampal Excitatory and Inhibitory Neurons. <i>Molecular Neurobiology</i> , <b>2019</b> , 56, 6276-6292	6.2	12
160	Mild Inactivation of RE-1 Silencing Transcription Factor (REST) Reduces Susceptibility to Kainic Acid-Induced Seizures. <i>Frontiers in Cellular Neuroscience</i> , <b>2019</b> , 13, 580	6.1	4
159	Synapsins are expressed at neuronal and non-neuronal locations in Octopus vulgaris. <i>Scientific Reports</i> , <b>2019</b> , 9, 15430	4.9	3
158	Biallelic DMXL2 mutations impair autophagy and cause Ohtahara syndrome with progressive course. <i>Brain</i> , <b>2019</b> , 142, 3876-3891	11.2	11
157	Autoantibodies to synapsin I sequester synapsin I and alter synaptic function. <i>Cell Death and Disease</i> , <b>2019</b> , 10, 864	9.8	8
156	Sub-millisecond Control of Neuronal Firing by Organic Light-Emitting Diodes. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2019</b> , 7, 278	5.8	13
155	Obligatory role of endoplasmic reticulum in brain FDG uptake. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , <b>2019</b> , 46, 1184-1196	8.8	13
154	The epilepsy-associated protein TBC1D24 is required for normal development, survival and vesicle trafficking in mammalian neurons. <i>Human Molecular Genetics</i> , <b>2019</b> , 28, 584-597	5.6	23
153	Constitutive Inactivation of the PRRT2 Gene Alters Short-Term Synaptic Plasticity and Promotes Network Hyperexcitability in Hippocampal Neurons. <i>Cerebral Cortex</i> , <b>2019</b> , 29, 2010-2033	5.1	19
152	New technologies for developing second generation retinal prostheses. <i>Lab Animal</i> , <b>2018</b> , 47, 71-75	0.4	21
151	Use of SU8 as a stable and biocompatible adhesion layer for gold bioelectrodes. <i>Scientific Reports</i> , <b>2018</b> , 8, 5560	4.9	24
150	The evolution of artificial light actuators in living systems: from planar to nanostructured interfaces. <i>Chemical Society Reviews</i> , <b>2018</b> , 47, 4757-4780	58.5	47
149	De novo mutations of the ATP6V1A gene cause developmental encephalopathy with epilepsy. <i>Brain</i> , <b>2018</b> , 141, 1703-1718	11.2	44
148	Delivery of Brain-Derived Neurotrophic Factor by 3D Biocompatible Polymeric Scaffolds for Neural Tissue Engineering and Neuronal Regeneration. <i>Molecular Neurobiology</i> , <b>2018</b> , 55, 8788-8798	6.2	21
147	Altered Intracellular Calcium Homeostasis Underlying Enhanced Glutamatergic Transmission in Striatal-Enriched Tyrosine Phosphatase (STEP) Knockout Mice. <i>Molecular Neurobiology</i> , <b>2018</b> , 55, 8084-8102	6.2	6
146	PRRT2 controls neuronal excitability by negatively modulating Na <sup>+</sup> channel 1.2/1.6 activity. <i>Brain</i> , <b>2018</b> , 141, 1000-1016	11.2	64

145	Small-Animal F-FDG PET for Research on : Applications and Future Directions in Invertebrate Neuroscience and Tissue Regeneration. <i>Journal of Nuclear Medicine</i> , <b>2018</b> , 59, 1302-1307	8.9	9
144	Synapsin III deficiency hampers $\beta$ -synuclein aggregation, striatal synaptic damage and nigral cell loss in an AAV-based mouse model of Parkinson's disease. <i>Acta Neuropathologica</i> , <b>2018</b> , 136, 621-639	14.3	33
143	Interfacing Graphene-Based Materials With Neural Cells. <i>Frontiers in Systems Neuroscience</i> , <b>2018</b> , 12, 12	3.5	61
142	Graphene Oxide Upregulates the Homeostatic Functions of Primary Astrocytes and Modulates Astrocyte-to-Neuron Communication. <i>Nano Letters</i> , <b>2018</b> , 18, 5827-5838	11.5	37
141	Roadmap on semiconductor-cell biointerfaces. <i>Physical Biology</i> , <b>2018</b> , 15, 031002	3	34
140	Effect of starvation on brain glucose metabolism and F-2-fluoro-2-deoxyglucose uptake: an experimental in-vivo and ex-vivo study. <i>EJNMMI Research</i> , <b>2018</b> , 8, 44	3.6	9
139	Synapsin I and Synapsin II regulate neurogenesis in the dentate gyrus of adult mice. <i>Oncotarget</i> , <b>2018</b> , 9, 18760-18774	3.3	8
138	Epitope specificity of anti-synapsin autoantibodies: Differential targeting of synapsin I domains. <i>PLoS ONE</i> , <b>2018</b> , 13, e0208636	3.7	4
137	Behavioral Assessment of Vision in Pigs. <i>Journal of the American Association for Laboratory Animal Science</i> , <b>2018</b> , 57, 350-356	1.3	6
136	Biocompatibility of a Magnetic Tunnel Junction Sensor Array for the Detection of Neuronal Signals in Culture. <i>Frontiers in Neuroscience</i> , <b>2018</b> , 12, 909	5.1	11
135	Safety Assessment of Graphene-Based Materials: Focus on Human Health and the Environment. <i>ACS Nano</i> , <b>2018</b> , 12, 10582-10620	16.7	292
134	Molecular Dynamics Simulations of Ion Selectivity in a Claudin-15 Paracellular Channel. <i>Journal of Physical Chemistry B</i> , <b>2018</b> , 122, 10783-10792	3.4	17
133	Synapsins Are Downstream Players of the BDNF-Mediated Axonal Growth. <i>Molecular Neurobiology</i> , <b>2017</b> , 54, 484-494	6.2	17
132	The PRRT2 knockout mouse recapitulates the neurological diseases associated with PRRT2 mutations. <i>Neurobiology of Disease</i> , <b>2017</b> , 99, 66-83	7.5	44
131	A fully organic retinal prosthesis restores vision in a rat model of degenerative blindness. <i>Nature Materials</i> , <b>2017</b> , 16, 681-689	27	158
130	Neuronal hyperactivity causes Na/H exchanger-induced extracellular acidification at active synapses. <i>Journal of Cell Science</i> , <b>2017</b> , 130, 1435-1449	5.3	10
129	Selective lowering of synapsins induced by oligomeric $\beta$ -synuclein exacerbates memory deficits. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, E4648-E4657	11.5	34
128	A novel SYN1 missense mutation in non-syndromic X-linked intellectual disability affects synaptic vesicle life cycle, clustering and mobility. <i>Human Molecular Genetics</i> , <b>2017</b> , 26, 4699-4714	5.6	26

127	Optogenetic Modulation of Intracellular Signalling and Transcription: Focus on Neuronal Plasticity. <i>Journal of Experimental Neuroscience</i> , <b>2017</b> , 11, 1179069517703354	3.6	18
126	Organic Optoelectronic Interfaces for Vision Restoration <b>2017</b> , 269-286		1
125	The Knockout of Synapsin II in Mice Impairs Social Behavior and Functional Connectivity Generating an ASD-like Phenotype. <i>Cerebral Cortex</i> , <b>2017</b> , 27, 5014-5023	5.1	28
124	Magnetic Tunnel Junction Based Chip to Detect the Magnetic Field of Neuronal Signals: A Platform for In Vitro Studies. <i>Proceedings (mdpi)</i> , <b>2017</b> , 1, 735	0.3	
123	Synapsin-antibodies in psychiatric and neurological disorders: Prevalence and clinical findings. <i>Brain, Behavior, and Immunity</i> , <b>2017</b> , 66, 125-134	16.6	6
122	Intersectin associates with synapsin and regulates its nanoscale localization and function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 12057-12062	11.5	24
121	The Transcription Factors EBF1 and EBF2 Are Positive Regulators of Myelination in Schwann Cells. <i>Molecular Neurobiology</i> , <b>2017</b> , 54, 8117-8127	6.2	4
120	APACHE Is an AP2-Interacting Protein Involved in Synaptic Vesicle Trafficking and Neuronal Development. <i>Cell Reports</i> , <b>2017</b> , 21, 3596-3611	10.6	7
119	Pavlovian Conditioning of Larval : An Illustrated, Multilingual, Hands-On Manual for Odor-Taste Associative Learning in Maggots. <i>Frontiers in Behavioral Neuroscience</i> , <b>2017</b> , 11, 45	3.5	14
118	A refined model of claudin-15 tight junction paracellular architecture by molecular dynamics simulations. <i>PLoS ONE</i> , <b>2017</b> , 12, e0184190	3.7	17
117	Impaired GABA-mediated presynaptic inhibition increases excitatory strength and alters short-term plasticity in synapsin knockout mice. <i>Oncotarget</i> , <b>2017</b> , 8, 90061-90076	3.3	4
116	PRRT2: from Paroxysmal Disorders to Regulation of Synaptic Function. <i>Trends in Neurosciences</i> , <b>2016</b> , 39, 668-679	13.3	49
115	2-Deoxy-d-glucose enhances tonic inhibition through the neurosteroid-mediated activation of extrasynaptic GABA receptors. <i>Epilepsia</i> , <b>2016</b> , 57, 1987-2000	6.4	25
114	Light-evoked hyperpolarization and silencing of neurons by conjugated polymers. <i>Scientific Reports</i> , <b>2016</b> , 6, 22718	4.9	61
113	Fine Tuning of Synaptic Plasticity and Filtering by GABA Released from Hippocampal Autaptic Granule Cells. <i>Cerebral Cortex</i> , <b>2016</b> , 26, 1149-67	5.1	11
112	A Novel Topology of Proline-rich Transmembrane Protein 2 (PRRT2): HINTS FOR AN INTRACELLULAR FUNCTION AT THE SYNAPSE. <i>Journal of Biological Chemistry</i> , <b>2016</b> , 291, 6111-23	5.4	40
111	Regulation of neural gene transcription by optogenetic inhibition of the RE1-silencing transcription factor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, E91-100	11.5	38
110	Cell adhesion molecule L1 contributes to neuronal excitability regulating the function of voltage-gated Na <sup>+</sup> channels. <i>Journal of Cell Science</i> , <b>2016</b> , 129, 1878-91	5.3	17

109	Arf6 regulates the cycling and the readily releasable pool of synaptic vesicles at hippocampal synapse. <i>ELife</i> , <b>2016</b> , 5,	8.9	30
108	Nanoparticles: A Challenging Vehicle for Neural Stimulation. <i>Frontiers in Neuroscience</i> , <b>2016</b> , 10, 105	5.1	33
107	Molecular Machines Determining the Fate of Endocytosed Synaptic Vesicles in Nerve Terminals. <i>Frontiers in Synaptic Neuroscience</i> , <b>2016</b> , 8, 10	3.5	8
106	Graphene Oxide Nanosheets Disrupt Lipid Composition, Ca(2+) Homeostasis, and Synaptic Transmission in Primary Cortical Neurons. <i>ACS Nano</i> , <b>2016</b> , 10, 7154-71	16.7	93
105	Characterization of a Polymer-Based, Fully Organic Prosthesis for Implantation into the Subretinal Space of the Rat. <i>Advanced Healthcare Materials</i> , <b>2016</b> , 5, 2271-82	10.1	54
104	PRRT2 Is a Key Component of the Ca(2+)-Dependent Neurotransmitter Release Machinery. <i>Cell Reports</i> , <b>2016</b> , 15, 117-131	10.6	82
103	Functional Interaction between the Scaffold Protein Kidins220/ARMS and Neuronal Voltage-Gated Na+ Channels. <i>Journal of Biological Chemistry</i> , <b>2015</b> , 290, 18045-18055	5.4	11
102	βsynuclein and synapsin III cooperatively regulate synaptic function in dopamine neurons. <i>Journal of Cell Science</i> , <b>2015</b> , 128, 2231-43	5.3	75
101	TAAR1 Modulates Cortical Glutamate NMDA Receptor Function. <i>Neuropsychopharmacology</i> , <b>2015</b> , 40, 2217-27	8.7	74
100	Identification and Expression of Acetylcholinesterase in Octopus vulgaris Arm Development and Regeneration: a Conserved Role for ACHE?. <i>Molecular Neurobiology</i> , <b>2015</b> , 52, 45-56	6.2	21
99	Rapid Conversion of Fibroblasts into Functional Forebrain GABAergic Interneurons by Direct Genetic Reprogramming. <i>Cell Stem Cell</i> , <b>2015</b> , 17, 719-734	18	111
98	Synapsin III acts downstream of semaphorin 3A/CDK5 signaling to regulate radial migration and orientation of pyramidal neurons in vivo. <i>Cell Reports</i> , <b>2015</b> , 11, 234-48	10.6	14
97	Exocytosis regulates trafficking of GABA and glycine heterotransporters in spinal cord glutamatergic synapses: a mechanism for the excessive heterotransporter-induced release of glutamate in experimental amyotrophic lateral sclerosis. <i>Neurobiology of Disease</i> , <b>2015</b> , 74, 314-24	7.5	13
96	Shedding Light on Living Cells. <i>Advanced Materials</i> , <b>2015</b> , 27, 7662-9	24	29
95	Photothermal cellular stimulation in functional bio-polymer interfaces. <i>Scientific Reports</i> , <b>2015</b> , 5, 8911	4.9	105
94	Intrathecal immunoglobulin A and G antibodies to synapsin in a patient with limbic encephalitis. <i>Neurology: Neuroimmunology and NeuroInflammation</i> , <b>2015</b> , 2, e169	9.1	12
93	Asynchronous GABA Release Is a Key Determinant of Tonic Inhibition and Controls Neuronal Excitability: A Study in the Synapsin II-/- Mouse. <i>Cerebral Cortex</i> , <b>2015</b> , 25, 3356-68	5.1	27
92	X-linked focal epilepsy with reflex bathing seizures: Characterization of a distinct epileptic syndrome. <i>Epilepsia</i> , <b>2015</b> , 56, 1098-108	6.4	34



91	Investigation of the stability and biocompatibility of commonly used electrode materials in organic neuro-optoelectronics <b>2015</b> ,		4
90	Controlling cell functions by light <b>2015</b> ,		2
89	Phosphorylation by PKA and Cdk5 Mediates the Early Effects of Synapsin III in Neuronal Morphological Maturation. <i>Journal of Neuroscience</i> , <b>2015</b> , 35, 13148-59	6.6	15
88	Direct conversion of fibroblasts into functional astrocytes by defined transcription factors. <i>Stem Cell Reports</i> , <b>2015</b> , 4, 25-36	8	137
87	Presynaptic NMDA receptors - dynamics and distribution in developing axons in vitro and in vivo. <i>Journal of Cell Science</i> , <b>2015</b> , 128, 768-80	5.3	23
86	Synapsins and Synaptic Vesicle Storage <b>2015</b> , 295-326		2
85	Classification framework for graphene-based materials. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 7714-8	16.4	287
84	Bio-inspired hybrid microelectrodes: a hybrid solution to improve long-term performance of chronic intracortical implants. <i>Frontiers in Neuroengineering</i> , <b>2014</b> , 7, 7		35
83	Involvement of synaptic genes in the pathogenesis of autism spectrum disorders: the case of synapsins. <i>Frontiers in Pediatrics</i> , <b>2014</b> , 2, 94	3.4	42
82	TBC1D24 regulates neuronal migration and maturation through modulation of the ARF6-dependent pathway. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 2337-42	11.5	69
81	Synaptic recruitment of gephyrin regulates surface GABAA receptor dynamics for the expression of inhibitory LTP. <i>Nature Communications</i> , <b>2014</b> , 5, 3921	17.4	115
80	Rahmenbedingungen für die Klassifizierung graphenbasierter Materialien. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 7846-7850	3.6	6
79	SYN2 is an autism predisposing gene: loss-of-function mutations alter synaptic vesicle cycling and axon outgrowth. <i>Human Molecular Genetics</i> , <b>2014</b> , 23, 90-103	5.6	61
78	Phosphorylation of synapsin I by cyclin-dependent kinase-5 sets the ratio between the resting and recycling pools of synaptic vesicles at hippocampal synapses. <i>Journal of Neuroscience</i> , <b>2014</b> , 34, 7266-80	6.6	52
77	Functional role of ATP binding to synapsin I in synaptic vesicle trafficking and release dynamics. <i>Journal of Neuroscience</i> , <b>2014</b> , 34, 14752-68	6.6	18
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