

# A Radu Aricescu

## List of Publications by Year in descending order

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Version: 2024-02-01

65  
papers

8,022  
citations

53794

45  
h-index

95266

68  
g-index

77  
all docs

77  
docs citations

77  
times ranked

11972  
citing authors

#	ARTICLE	IF	CITATIONS
1	Differential assembly diversifies GABAA receptor structures and signalling. <i>Nature</i> , 2022, 604, 190-194.	27.8	36
2	Site-specific covalent labeling of His-tag fused proteins with N-acyl-N-alkyl sulfonamide reagent. <i>Bioorganic and Medicinal Chemistry</i> , 2021, 30, 115947.	3.0	12
3	Simultaneous binding of Guidance Cues NET1 and RGM blocks extracellular NEO1 signaling. <i>Cell</i> , 2021, 184, 2103-2120.e31.	28.9	20
4	Single-dose immunisation with a multimerised SARS-CoV-2 receptor binding domain (RBD) induces an enhanced and protective response in mice. <i>FEBS Letters</i> , 2021, 595, 2323-2340.	2.8	24
5	Megabodies expand the nanobody toolkit for protein structure determination by single-particle cryo-EM. <i>Nature Methods</i> , 2021, 18, 60-68.	19.0	79
6	Single-particle cryo-EM at atomic resolution. <i>Nature</i> , 2020, 587, 152-156.	27.8	572
7	A synthetic synaptic organizer protein restores glutamatergic neuronal circuits. <i>Science</i> , 2020, 369, .	12.6	78
8	A structural perspective on GABAA receptor pharmacology. <i>Current Opinion in Structural Biology</i> , 2019, 54, 189-197.	5.7	51
9	GABAA receptor signalling mechanisms revealed by structural pharmacology. <i>Nature</i> , 2019, 565, 454-459.	27.8	386
10	Cryo-EM structure of the human $\alpha 1\beta 2$ GABAA receptor in a lipid bilayer. <i>Nature</i> , 2019, 565, 516-520.	27.8	264
11	Lentiviral transduction of mammalian cells for fast, scalable and high-level production of soluble and membrane proteins. <i>Nature Protocols</i> , 2018, 13, 2991-3017.	12.0	131
12	Glutamate receptor $\alpha 2$ serum antibodies in pediatric opsoclonus myoclonus ataxia syndrome. <i>Neurology</i> , 2018, 91, e714-e723.	1.1	43
13	Heparan Sulfate Organizes Neuronal Synapses through Neurexin Partnerships. <i>Cell</i> , 2018, 174, 1450-1464.e23.	28.9	118
14	A GluD Coming-Of-Age Story. <i>Trends in Neurosciences</i> , 2017, 40, 138-150.	8.6	75
15	A point mutation in the ion conduction pore of AMPA receptor GRIA3 causes dramatically perturbed sleep patterns as well as intellectual disability. <i>Human Molecular Genetics</i> , 2017, 26, 3869-3882.	2.9	35
16	Astrocyte-Secreted Glypican 4 Regulates Release of Neuronal Pentraxin 1 from Axons to Induce Functional Synapse Formation. <i>Neuron</i> , 2017, 96, 428-445.e13.	8.1	140
17	Structural Mechanism for Modulation of Synaptic Neuroligin-Neurexin Signaling by MDGA Proteins. <i>Neuron</i> , 2017, 95, 896-913.e10.	8.1	55
18	Structural basis for GABAA receptor potentiation by neurosteroids. <i>Nature Structural and Molecular Biology</i> , 2017, 24, 986-992.	8.2	145

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19	nanobâ€”number and brightness in R with a novel automatic detrending algorithm. <i>Bioinformatics</i> , 2017, 33, 3508-3510.	4.1	21
20	A map of human PRDM9 binding provides evidence for novel behaviors of PRDM9 and other zinc-finger proteins in meiosis. <i>ELife</i> , 2017, 6, .	6.0	80
21	Transsynaptic Modulation of Kainate Receptor Functions by C1q-like Proteins. <i>Neuron</i> , 2016, 90, 752-767.	8.1	150
22	Structural basis for integration of GluD receptors within synaptic organizer complexes. <i>Science</i> , 2016, 353, 295-299.	12.6	128
23	Initiation of T cell signaling by CD45 segregation at 'close contacts'. <i>Nature Immunology</i> , 2016, 17, 574-582.	14.5	253
24	A Computational Model for the AMPA Receptor Phosphorylation Master Switch Regulating Cerebellar Long-Term Depression. <i>PLoS Computational Biology</i> , 2016, 12, e1004664.	3.2	22
25	Targeting phosphatase-dependent proteoglycan switch for rheumatoid arthritis therapy. <i>Science Translational Medicine</i> , 2015, 7, 288ra76.	12.4	44
26	Extracellular regulation of type IIa receptor protein tyrosine phosphatases: mechanistic insights from structural analyses. <i>Seminars in Cell and Developmental Biology</i> , 2015, 37, 98-107.	5.0	31
27	Anterograde C1ql1 Signaling Is Required in Order to Determine and Maintain a Single-Winner Climbing Fiber in the Mouse Cerebellum. <i>Neuron</i> , 2015, 85, 316-329.	8.1	161
28	Factors influencing success of clinical genome sequencing across a broad spectrum of disorders. <i>Nature Genetics</i> , 2015, 47, 717-726.	21.4	310
29	Production of Cell Surface and Secreted Glycoproteins in Mammalian Cells. <i>Methods in Molecular Biology</i> , 2015, 1261, 115-127.	0.9	27
30	Structural basis for extracellular cis and trans RPTPIf signal competition in synaptogenesis. <i>Nature Communications</i> , 2014, 5, 5209.	12.8	67
31	Crystal structure of a human GABAA receptor. <i>Nature</i> , 2014, 512, 270-275.	27.8	623
32	Structurally encoded intraclass differences in EphA clusters drive distinct cell responses. <i>Nature Structural and Molecular Biology</i> , 2013, 20, 958-964.	8.2	91
33	Expression of recombinant glycoproteins in mammalian cells: towards an integrative approach to structural biology. <i>Current Opinion in Structural Biology</i> , 2013, 23, 345-356.	5.7	48
34	Atomic-resolution monitoring of protein maturation in live human cells by NMR. <i>Nature Chemical Biology</i> , 2013, 9, 297-299.	8.0	204
35	Structure of the Repulsive Guidance Molecule (RGM)â€”Neogenin Signaling Hub. <i>Science</i> , 2013, 341, 77-80.	12.6	52
36	Chemical and Structural Analysis of an Antibody Folding Intermediate Trapped during Glycan Biosynthesis. <i>Journal of the American Chemical Society</i> , 2012, 134, 17554-17563.	13.7	65

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37	Modular mechanism of Wnt signaling inhibition by Wnt inhibitory factor 1. <i>Nature Structural and Molecular Biology</i> , 2011, 18, 886-893.	8.2	135
38	Proteoglycan-Specific Molecular Switch for RPTP $\beta$ Clustering and Neuronal Extension. <i>Science</i> , 2011, 332, 484-488.	12.6	294
39	Structural and Functional Studies of LRP6 Ectodomain Reveal a Platform for Wnt Signaling. <i>Developmental Cell</i> , 2011, 21, 848-861.	7.0	109
40	Automation of large scale transient protein expression in mammalian cells. <i>Journal of Structural Biology</i> , 2011, 175, 209-215.	2.8	55
41	A Dual Binding Mode for RhoGTPases in Plexin Signalling. <i>PLoS Biology</i> , 2011, 9, e1001134.	5.6	54
42	An extracellular steric seeding mechanism for Eph-ephrin signaling platform assembly. <i>Nature Structural and Molecular Biology</i> , 2010, 17, 398-402.	8.2	186
43	Structural Plasticity of Eph Receptor A4 Facilitates Cross-Class Ephrin Signaling. <i>Structure</i> , 2009, 17, 1386-1397.	3.3	86
44	Structural insights into hedgehog ligand sequestration by the human hedgehog-interacting protein HHIP. <i>Nature Structural and Molecular Biology</i> , 2009, 16, 698-703.	8.2	123
45	Carbohydrate and Domain Architecture of an Immature Antibody Glycoform Exhibiting Enhanced Effector Functions. <i>Journal of Molecular Biology</i> , 2009, 387, 1061-1066.	4.2	67
46	Crystal Structure of the GluR2 Amino-Terminal Domain Provides Insights into the Architecture and Assembly of Ionotropic Glutamate Receptors. <i>Journal of Molecular Biology</i> , 2009, 392, 1125-1132.	4.2	70
47	Preparation of recombinant fibronectin fragments for functional and structural studies. <i>Methods in Molecular Biology</i> , 2009, 522, 73-99.	0.9	12
48	Protein tyrosine phosphatases: structure–function relationships. <i>FEBS Journal</i> , 2008, 275, 867-882.	4.7	124
49	Structural basis of Nipah and Hendra virus attachment to their cell-surface receptor ephrin-B2. <i>Nature Structural and Molecular Biology</i> , 2008, 15, 567-572.	8.2	200
50	Ventral closure, headfold fusion and definitive endoderm migration defects in mouse embryos lacking the fibronectin leucine-rich transmembrane protein FLRT3. <i>Developmental Biology</i> , 2008, 318, 184-193.	2.0	53
51	Crystal Structure and Carbohydrate Analysis of Nipah Virus Attachment Glycoprotein: a Template for Antiviral and Vaccine Design. <i>Journal of Virology</i> , 2008, 82, 11628-11636.	3.4	109
52	Receptor protein tyrosine phosphatase $\frac{1}{4}$ : measuring where to stick. <i>Biochemical Society Transactions</i> , 2008, 36, 167-172.	3.4	14
53	Structure of a Tyrosine Phosphatase Adhesive Interaction Reveals a Spacer-Clamp Mechanism. <i>Science</i> , 2007, 317, 1217-1220.	12.6	107
54	Disruption of $\frac{1}{4}$ -mannosidase processing induces non-canonical hybrid-type glycosylation. <i>FEBS Letters</i> , 2007, 581, 1963-1968.	2.8	18

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55	Analysis of variable N-glycosylation site occupancy in glycoproteins by liquid chromatography electrospray ionization mass spectrometry. <i>Analytical Biochemistry</i> , 2007, 361, 149-151.	2.4	12
56	Immunoglobulin superfamily cell adhesion molecules: zippers and signals. <i>Current Opinion in Cell Biology</i> , 2007, 19, 543-550.	5.4	121
57	Glycoprotein Structural Genomics: Solving the Glycosylation Problem. <i>Structure</i> , 2007, 15, 267-273.	3.3	273
58	High-throughput cloning, expression, and purification. , 2007, , 23-44.		0
59	A time- and cost-efficient system for high-level protein production in mammalian cells. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2006, 62, 1243-1250.	2.5	672
60	The Crystal Structure of ORF-9b, a Lipid Binding Protein from the SARS Coronavirus. <i>Structure</i> , 2006, 14, 1157-1165.	3.3	91
61	Inhibition of hybrid- and complex-type glycosylation reveals the presence of the GlcNAc transferase I-independent fucosylation pathway. <i>Glycobiology</i> , 2006, 16, 748-756.	2.5	52
62	PTP <sup>lf</sup> promotes retinal neurite outgrowth non-cell-autonomously. <i>Journal of Neurobiology</i> , 2005, 65, 59-71.	3.6	14
63	Isoform-specific binding of the tyrosine phosphatase ptp <sup>lf</sup> to a ligand in developing muscle. <i>Molecular and Cellular Neurosciences</i> , 2003, 22, 37-48.	2.2	25
64	Heparan Sulfate Proteoglycans Are Ligands for Receptor Protein Tyrosine Phosphatase <sup>lf</sup> . <i>Molecular and Cellular Biology</i> , 2002, 22, 1881-1892.	2.3	192
65	Chick PTP <sup>lf</sup> , Regulates the Targeting of Retinal Axons within the Optic Tectum. <i>Journal of Neuroscience</i> , 2002, 22, 5024-5033.	3.6	34