

Radostin Danev

List of Publications by Year in Descending Order

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Version: 2024-04-05

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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.

97 papers	4,501 citations	36 h-index	66 g-index
105 ext. papers	5,587 ext. citations	9.5 avg, IF	5.85 L-index

#	Paper	IF	Citations
97	Dynamics of GLP-1R peptide agonist engagement are correlated with kinetics of G protein activation.. <i>Nature Communications</i> , 2022 , 13, 92	17.4	3
96	A structural basis for amylin receptor phenotype.. <i>Science</i> , 2022 , 375, eabm9609	33.3	0
95	Structure and dynamics of the CGRP receptor in apo and peptide-bound forms. <i>Science</i> , 2021 , 372,	33.3	21
94	Cryo-EM performance testing of hardware and data acquisition strategies. <i>Microscopy (Oxford, England)</i> , 2021 , 70, 487-497	1.3	4
93	Structures of the human cholecystokinin 1 (CCK1) receptor bound to Gs and Gq mimetic proteins provide insight into mechanisms of G protein selectivity. <i>PLoS Biology</i> , 2021 , 19, e3001295	9.7	8
92	Structure and dynamics of semaglutide- and taspoglutide-bound GLP-1R-Gs complexes. <i>Cell Reports</i> , 2021 , 36, 109374	10.6	6
91	Routine sub-2.5 Å cryo-EM structure determination of GPCRs. <i>Nature Communications</i> , 2021 , 12, 4333	17.4	5
90	Evolving cryo-EM structural approaches for GPCR drug discovery. <i>Structure</i> , 2021 , 29, 963-974.e6	5.2	6
89	Positive allosteric mechanisms of adenosine A receptor-mediated analgesia. <i>Nature</i> , 2021 , 597, 571-576	50.4	12
88	Cryo-EM structure of the dual incretin receptor agonist, peptide-19, in complex with the glucagon-like peptide-1 receptor. <i>Biochemical and Biophysical Research Communications</i> , 2021 , 578, 84-90	3.4	1
87	Structural and functional diversity among agonist-bound states of the GLP-1 receptor.. <i>Nature Chemical Biology</i> , 2021 ,	11.7	1
86	Cryo-electron microscopy structure of the glucagon receptor with a dual-agonist peptide. <i>Journal of Biological Chemistry</i> , 2020 , 295, 9313-9325	5.4	15
85	Structure and Dynamics of Adrenomedullin Receptors AM and AM Reveal Key Mechanisms in the Control of Receptor Phenotype by Receptor Activity-Modifying Proteins. <i>ACS Pharmacology and Translational Science</i> , 2020 , 3, 263-284	5.9	42
84	Toward a Structural Understanding of Class B GPCR Peptide Binding and Activation. <i>Molecular Cell</i> , 2020 , 77, 656-668.e5	17.6	46
83	Fast and accurate defocus modulation for improved tunability of cryo-EM experiments. <i>IUCrJ</i> , 2020 , 7, 566-574	4.7	2
82	Electrons receive individual treatment with electron-event representation. <i>IUCrJ</i> , 2020 , 7, 780-781	4.7	0
81	Activation of the GLP-1 receptor by a non-peptidic agonist. <i>Nature</i> , 2020 , 577, 432-436	50.4	74

80	Differential GLP-1R Binding and Activation by Peptide and Non-peptide Agonists. <i>Molecular Cell</i> , 2020 , 80, 485-500.e7	17.6	41
79	Spectral DQE of the Volta phase plate. <i>Ultramicroscopy</i> , 2020 , 218, 113079	3.1	12
78	Structure and dynamics of the active Gs-coupled human secretin receptor. <i>Nature Communications</i> , 2020 , 11, 4137	17.4	26
77	Phase-plate cryo-EM structure of the Widom 601 CENP-A nucleosome core particle reveals differential flexibility of the DNA ends. <i>Nucleic Acids Research</i> , 2020 , 48, 5735-5748	20.1	13
76	Electrons see the light. <i>Nature Methods</i> , 2019 , 16, 966-967	21.6	1
75	Cryo-Electron Microscopy Methodology: Current Aspects and Future Directions. <i>Trends in Biochemical Sciences</i> , 2019 , 44, 837-848	10.3	102
74	Improved applicability and robustness of fast cryo-electron tomography data acquisition. <i>Journal of Structural Biology</i> , 2019 , 208, 107-114	3.4	36
73	Single Particle Imaging with the Volta Phase Plate. <i>Microscopy and Microanalysis</i> , 2019 , 25, 7-8	0.5	1
72	Cryo-EM structures of the archaeal PAN-proteasome reveal an around-the-ring ATPase cycle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 534-539	11.5	51
71	Phase-plate cryo-EM structure of a biased agonist-bound human GLP-1 receptor-Gs complex. <i>Nature</i> , 2018 , 555, 121-125	50.4	190
70	Volta phase plate data collection facilitates image processing and cryo-EM structure determination. <i>Journal of Structural Biology</i> , 2018 , 202, 191-199	3.4	14
69	Structure of the adenosine-bound human adenosine A receptor-G complex. <i>Nature</i> , 2018 , 558, 559-563	50.4	188
68	Subtomogram analysis using the Volta phase plate. <i>Journal of Structural Biology</i> , 2017 , 197, 94-101	3.4	53
67	Phase-plate cryo-EM structure of a class B GPCR-G-protein complex. <i>Nature</i> , 2017 , 546, 118-123	50.4	334
66	Towards High Resolution in Cryo-Electron Tomography Subtomogram Analysis. <i>Microscopy and Microanalysis</i> , 2017 , 23, 812-813	0.5	1
65	Revisiting the Structure of Hemoglobin and Myoglobin with Cryo-Electron Microscopy. <i>Journal of Molecular Biology</i> , 2017 , 429, 2611-2618	6.5	20
64	Morphologies of synaptic protein membrane fusion interfaces. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 9110-9115	11.5	33
63	Charting Molecular Landscapes Using Cryo-Electron Tomography. <i>Microscopy Today</i> , 2017 , 25, 26-31	0.4	

62	Biological Sciences Tutorial: CryoEM with Phase Plates. <i>Microscopy and Microanalysis</i> , 2017 , 23, 1398-1399.	9.5	1
61	Expanding the boundaries of cryo-EM with phase plates. <i>Current Opinion in Structural Biology</i> , 2017 , 46, 87-94	8.1	66
60	Cryo-EM structure of haemoglobin at 3.2 Å determined with the Volta phase plate. <i>Nature Communications</i> , 2017 , 8, 16099	17.4	171
59	Phase Contrast Single Particle Analysis at Atomic Resolutions. <i>Microscopy and Microanalysis</i> , 2017 , 23, 816-817	0.5	
58	Exploring Cellular Morphology of <i>Thermoplasma acidophilum</i> by Cryo-Electron Tomography with Volta Phase Plate. <i>Microscopy and Microanalysis</i> , 2017 , 23, 1234-1235	0.5	1
57	Using the Volta phase plate with defocus for cryo-EM single particle analysis. <i>ELife</i> , 2017 , 6,	8.9	87
56	1S-B2-1 Single Particle Analysis Applications of the Volta Phase Plate. <i>Microscopy (Oxford, England)</i> , 2017 , 66, i9-i9	1.3	0
55	Enabling and doing structural biology in situ 2016 , 113-113		
54	Volta phase plate cryo-EM of the small protein complex Prx3. <i>Nature Communications</i> , 2016 , 7, 10534	17.4	58
53	Visualizing the molecular sociology at the HeLa cell nuclear periphery. <i>Science</i> , 2016 , 351, 969-72	33.3	344
52	Cryo-EM single particle analysis with the Volta phase plate. <i>ELife</i> , 2016 , 5,	8.9	102
51	Solution Conformations of Peroxiredoxins Visualised by Volta Phase Plates. <i>Microscopy and Microanalysis</i> , 2016 , 22, 70-71	0.5	2
50	Optimizing the FEI Volta Phase Plate for Efficient and Artefact-free Data Acquisition. <i>Microscopy and Microanalysis</i> , 2016 , 22, 58-59	0.5	0
49	Single Particle Analysis with the Volta Phase Plate. <i>Microscopy and Microanalysis</i> , 2016 , 22, 82-83	0.5	1
48	High-resolution Imaging of Reconstituted Protein-DNA Complexes Using Phase Plate Electron Cryo Microscopy. <i>Microscopy and Microanalysis</i> , 2016 , 22, 68-69	0.5	
47	3.9 Å structure of the nucleosome core particle determined by phase-plate cryo-EM. <i>Nucleic Acids Research</i> , 2016 , 44, 8013-9	20.1	59
46	Proteasomes. A molecular census of 26S proteasomes in intact neurons. <i>Science</i> , 2015 , 347, 439-42	33.3	239
45	Electron cryotomography of vitrified cells with a Volta phase plate. <i>Journal of Structural Biology</i> , 2015 , 190, 143-54	3.4	108

44	Effect of fringe-artifact correction on sub-tomogram averaging from Zernike phase-plate cryo-TEM. <i>Journal of Structural Biology</i> , 2015 , 191, 299-305	3.4	9
43	Practical Aspects and Usage Tips for the Volta Phase Plate. <i>Microscopy and Microanalysis</i> , 2015 , 21, 1391-1392	1.3	0
42	In situ studies of cellular architecture by Electron Cryo-Tomography with Volta Phase Plate. <i>Microscopy and Microanalysis</i> , 2015 , 21, 1835-1836	0.5	1
41	Combination of Different Techniques in Cryo-Electron Tomography with a Volta Phase Plate. <i>Microscopy and Microanalysis</i> , 2015 , 21, 1393-1394	0.5	2
40	Volta potential phase plate for in-focus phase contrast transmission electron microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 15635-40	11.5	341
39	Automated Cryo-tomography and Single Particle Analysis with a New Type of Phase Plate. <i>Microscopy and Microanalysis</i> , 2014 , 20, 206-207	0.5	4
38	Phase-Contrast Cryo-Electron Tomography of Primary Cultured Neuronal Cells. <i>Microscopy and Microanalysis</i> , 2014 , 20, 208-209	0.5	
37	Challenges in Phase Plate Product Development. <i>Microscopy and Microanalysis</i> , 2014 , 20, 218-219	0.5	1
36	Phase Contrast Cryo-Electron Tomography and Single Particle Analysis with a New Phase Plate. <i>Microscopy and Microanalysis</i> , 2014 , 20, 232-233	0.5	1
35	Artifact Correction for Zernike Phase-Plate Cryo-Electron Tomography. <i>Microscopy and Microanalysis</i> , 2014 , 20, 234-235	0.5	2
34	Minimizing electrostatic charging of an aperture used to produce in-focus phase contrast in the TEM. <i>Ultramicroscopy</i> , 2013 , 135, 6-15	3.1	16
33	Non-acid-fastness in Mycobacterium tuberculosis KasB mutant correlates with the cell envelope electron density. <i>Tuberculosis</i> , 2012 , 92, 351-7	2.6	8
32	Optimizing the phase shift and the cut-on periodicity of phase plates for TEM. <i>Ultramicroscopy</i> , 2011 , 111, 1305-15	3.1	44
31	Systemic delivery of siRNA to tumors using a lipid nanoparticle containing a tumor-specific cleavable PEG-lipid. <i>Biomaterials</i> , 2011 , 32, 4306-16	15.6	168
30	A 3.5-nm structure of rat TRPV4 cation channel revealed by Zernike phase-contrast cryoelectron microscopy. <i>Journal of Biological Chemistry</i> , 2010 , 285, 11210-8	5.4	69
29	Phase plates for transmission electron microscopy. <i>Methods in Enzymology</i> , 2010 , 481, 343-69	1.7	45
28	Zernike phase contrast cryo-electron microscopy and tomography for structure determination at nanometer and subnanometer resolutions. <i>Structure</i> , 2010 , 18, 903-12	5.2	110
27	Immunolocalization of multiple membrane proteins on a carbon replica with STEM and EDX. <i>Ultramicroscopy</i> , 2010 , 110, 366-74	3.1	14

26	High-contrast imaging of plastic-embedded tissues by phase contrast electron microscopy. <i>Journal of Electron Microscopy</i> , 2009 , 58, 35-45		1
25	Envelope-type lipid nanoparticles incorporating a short PEG-lipid conjugate for improved control of intracellular trafficking and transgene transcription. <i>Biomaterials</i> , 2009 , 30, 4806-14	15.6	37
24	Phase-plate electron microscopy: a novel imaging tool to reveal close-to-life nano-structures. <i>Biophysical Reviews</i> , 2009 , 1, 37-42	3.7	26
23	Multi-layered nanoparticles for penetrating the endosome and nuclear membrane via a step-wise membrane fusion process. <i>Biomaterials</i> , 2009 , 30, 2940-9	15.6	117
22	Practical factors affecting the performance of a thin-film phase plate for transmission electron microscopy. <i>Ultramicroscopy</i> , 2009 , 109, 312-25	3.1	105
21	Strain-Induced Crystallization of Fractionated Natural Rubber from Fresh Latex. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , 2009 , 58, 5-10	0.1	2
20	Single particle analysis based on Zernike phase contrast transmission electron microscopy. <i>Journal of Structural Biology</i> , 2008 , 161, 211-8	3.4	89
19	Growth process and molecular packing of a self-assembled lipid nanotube: phase-contrast transmission electron microscopy and XRD analyses. <i>Langmuir</i> , 2008 , 24, 709-13	4	46
18	Decaarginine-PEG-artificial lipid/DNA complex for gene delivery: nanostructure and transfection efficiency. <i>Journal of Nanoscience and Nanotechnology</i> , 2008 , 8, 2308-15	1.3	23
17	An artificial virus-like nano carrier system: enhanced endosomal escape of nanoparticles via synergistic action of pH-sensitive fusogenic peptide derivatives. <i>Analytical and Bioanalytical Chemistry</i> , 2008 , 391, 2717-27	4.4	101
16	Intact carboxysomes in a cyanobacterial cell visualized by hilbert differential contrast transmission electron microscopy. <i>Journal of Bacteriology</i> , 2006 , 188, 805-8	3.5	61
15	Transition from nanotubes to micelles with increasing concentration in dilute aqueous solution of potassium N-acyl phenylalaninate. <i>Langmuir</i> , 2006 , 22, 8472-7	4	31
14	Self-assembly of nano-sized arrays on highly oriented thin films of poly(tetrafluoroethylene). <i>Polymer</i> , 2006 , 47, 951-955	3.9	8
13	In vivo subcellular ultrastructures recognized with Hilbert differential contrast transmission electron microscopy. <i>Journal of Electron Microscopy</i> , 2005 , 54, 79-84		49
12	Application of Phase Contrast Transmission Microscopic Methods to Polymer Materials. <i>Macromolecules</i> , 2005 , 38, 7884-7886	5.5	29
11	Complex Observation in Electron Microscopy: IV. Reconstruction of Complex Object Wave from Conventional and Half Plane Phase Plate Image Pair. <i>Journal of the Physical Society of Japan</i> , 2004 , 73, 2718-2724	1.5	38
10	Complex Observation in Electron Microscopy. II. Direct Visualization of Phases and Amplitudes of Exit Wave Functions. <i>Journal of the Physical Society of Japan</i> , 2001 , 70, 696-702	1.5	30
9	Electric charging of thin films measured using the contrast transfer function. <i>Ultramicroscopy</i> , 2001 , 87, 45-54	3.1	19

8	Transmission electron microscopy with Zernike phase plate. <i>Ultramicroscopy</i> , 2001 , 88, 243-52	3.1	227
7	Using the Volta phase plate with defocus for cryo-EM single particle analysis		2
6	Cryo-EM structure of haemoglobin at 3.2 Å determined with the Volta phase plate		8
5	Routine sub-2.5 Å cryo-EM structure determination of B-family G protein-coupled receptors		5
4	Dynamics of GLP-1R peptide agonist engagement are correlated with kinetics of G protein activation		3
3	Evolving cryo-EM structural approaches for GPCR drug discovery		1
2	Structural and Functional Diversity among Agonist-Bound States of the GLP-1 Receptor		1
1	Structure and dynamics of semaglutide and taspoglutide bound GLP-1R-Gs complexes		1