Radostin Danev

List of Publications by Year
in descending order

#	Article	IF	Citations
1	Dynamics of GLP-1R peptide agonist engagement are correlated with kinetics of G protein activation. Nature Communications, 2022, 13, 92.	12.8	30
2	A structural basis for amylin receptor phenotype. Science, 2022, 375, eabm9609.	12.6	28
3	Structural and functional diversity among agonist-bound states of the GLP-1 receptor. Nature Chemical Biology, 2022, 18, 256-263.	8.0	24
4	Structure and dynamics of the CGRP receptor in apo and peptide-bound forms. Science, 2021, 372, .	12.6	57
5	Cryo-EM performance testing of hardware and data acquisition strategies. Microscopy (Oxford,) Tj ETQq1 1 0.784314 rgBT /Overlock 10	1.5	17
6	Structures of the human cholecystokinin 1 (CCK1) receptor bound to Gs and Gq mimetic proteins provide insight into mechanisms of G protein selectivity. PLoS Biology, 2021, 19, e3001295.	5.6	41
7	Structure and dynamics of semaglutide- and taspoglutide-bound GLP-1R-Gs complexes. Cell Reports, 2021, 36, 109374.	6.4	27
8	Routine sub-2.5â€‰Ã… cryo-EM structure determination of GPCRs. Nature Communications, 2021, 12, 4333.	12.8	37
9	Evolving cryo-EM structural approaches for GPCR drug discovery. Structure, 2021, 29, 963-974.e6.	3.3	29
10	Positive allosteric mechanisms of adenosine A1 receptor-mediated analgesia. Nature, 2021, 597, 571-576.	27.8	84
11	Cryo-EM structure of the dual incretin receptor agonist, peptide-19, in complex with the glucagon-like peptide-1 receptor. Biochemical and Biophysical Research Communications, 2021, 578, 84-90.	2.1	14
12	Activation of the GLP-1 receptor by a non-peptidic agonist. Nature, 2020, 577, 432-436.	27.8	119
13	Differential GLP-1R Binding and Activation by Peptide and Non-peptide Agonists. Molecular Cell, 2020, 80, 485-500.e7.	9.7	111
14	Spectral DQE of the Volta phase plate. Ultramicroscopy, 2020, 218, 113079.	1.9	21
15	Structure and dynamics of the active Gs-coupled human secretin receptor. Nature Communications, 2020, 11, 4137.	12.8	46
16	Cryo-electron microscopy structure of the glucagon receptor with a dual-agonist peptide. Journal of Biological Chemistry, 2020, 295, 9313-9325.	3.4	31
17	Structure and Dynamics of Adrenomedullin Receptors AM₁ and AM₂ Reveal Key Mechanisms in the Control of Receptor Phenotype by Receptor Activity-Modifying Proteins. ACS Pharmacology and Translational Science, 2020, 3, 263-284.	4.9	71
18	Toward a Structural Understanding of Class B GPCR Peptide Binding and Activation. Molecular Cell, 2020, 77, 656-668.e5.	9.7	92

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19	Phase-plate cryo-EM structure of the Widom 601 CENP-A nucleosome core particle reveals differential flexibility of the DNA ends. Nucleic Acids Research, 2020, 48, 5735-5748.	14.5	27
20	Fast and accurate defocus modulation for improved tunability of cryo-EM experiments. IUCrJ, 2020, 7, 566-574.	2.2	6
21	Electrons receive individual treatment with electron-event representation. IUCrJ, 2020, 7, 780-781.	2.2	1
22	Improved applicability and robustness of fast cryo-electron tomography data acquisition. Journal of Structural Biology, 2019, 208, 107-114.	2.8	70
23	Electrons see the light. Nature Methods, 2019, 16, 966-967.	19.0	1
24	Cryo-Electron Microscopy Methodology: Current Aspects and Future Directions. Trends in Biochemical Sciences, 2019, 44, 837-848.	7.5	176
25	Single Particle Imaging with the Volta Phase Plate. Microscopy and Microanalysis, 2019, 25, 7-8.	0.4	1
26	Cryo-EM structures of the archaeal PAN-proteasome reveal an around-the-ring ATPase cycle. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 534-539.	7.1	65
27	Phase-plate cryo-EM structure of a biased agonist-bound human GLP-1 receptorâ€“Gs complex. Nature, 2018, 555, 121-125.	27.8	263
28	Volta phase plate data collection facilitates image processing and cryo-EM structure determination. Journal of Structural Biology, 2018, 202, 191-199.	2.8	24
29	Structure of the adenosine-bound human adenosine A1 receptorâ€“Gi complex. Nature, 2018, 558, 559-563.	27.8	274
30	Subtomogram analysis using the Volta phase plate. Journal of Structural Biology, 2017, 197, 94-101.	2.8	71
31	Phase-plate cryo-EM structure of a class B GPCRâ€“G-protein complex. Nature, 2017, 546, 118-123.	27.8	424
32	Revisiting the Structure of Hemoglobin and Myoglobin with Cryo-Electron Microscopy. Journal of Molecular Biology, 2017, 429, 2611-2618.	4.2	22
33	Morphologies of synaptic protein membrane fusion interfaces. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 9110-9115.	7.1	51
34	Charting Molecular Landscapes Using Cryo-Electron Tomography. Microscopy Today, 2017, 25, 26-31.	0.3	0
35	Biological Sciences Tutorial: CryoEM with Phase Plates. Microscopy and Microanalysis, 2017, 23, 1398-1399.	0.4	1
36	Expanding the boundaries of cryo-EM with phase plates. Current Opinion in Structural Biology, 2017, 46, 87-94.	5.7	87

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37	Cryo-EM structure of haemoglobin at 3.2 Ã… determined with the Volta phase plate. Nature Communications, 2017, 8, 16099.	12.8	211
38	Phase Contrast Single Particle Analysis at Atomic Resolutions. Microscopy and Microanalysis, 2017, 23, 816-817.	0.4	0
39	Exploring Cellular Morphology of Thermoplasma acidophilum by Cryo-Electron Tomography with Volta Phase Plate. Microscopy and Microanalysis, 2017, 23, 1234-1235.	0.4	1
40	Towards High Resolution in Cryo-Electron Tomography Subtomogram Analysis. Microscopy and Microanalysis, 2017, 23, 812-813.	0.4	1
41	Using the Volta phase plate with defocus for cryo-EM single particle analysis. ELife, 2017, 6, .	6.0	109
42	1S-B2-1Single Particle Analysis Applications of the Volta Phase Plate. Microscopy (Oxford, England), 2017, 66, i9-i9.	1.5	1
43	Cryo-EM single particle analysis with the Volta phase plate. ELife, 2016, 5, .	6.0	141
44	Solution Conformations of Peroxiredoxins Visualised by Volta Phase Plates. Microscopy and Microanalysis, 2016, 22, 70-71.	0.4	2
45	Optimizing the FEI Volta Phase Plate for Efficient and Artefact-free Data Acquisition. Microscopy and Microanalysis, 2016, 22, 58-59.	0.4	1
46	Single Particle Analysis with the Volta Phase Plate. Microscopy and Microanalysis, 2016, 22, 82-83.	0.4	1
47	High-resolution Imaging of Reconstituted Protein-DNA Complexes Using Phase Plate Electron Cryo Microscopy. Microscopy and Microanalysis, 2016, 22, 68-69.	0.4	0
48	3.9 Ã… structure of the nucleosome core particle determined by phase-plate cryo-EM. Nucleic Acids Research, 2016, 44, 8013-8019.	14.5	78
49	Volta phase plate cryo-EM of the small protein complex Prx3. Nature Communications, 2016, 7, 10534.	12.8	64
50	Visualizing the molecular sociology at the HeLa cell nuclear periphery. Science, 2016, 351, 969-972.	12.6	493
51	Practical Aspects and Usage Tips for the Volta Phase Plate. Microscopy and Microanalysis, 2015, 21, 1391-1392.	0.4	1
52	In situ studies of cellular architecture by Electron Cryo-Tomography with Volta Phase Plate. Microscopy and Microanalysis, 2015, 21, 1835-1836.	0.4	1
53	Combination of Different Techniques in Cryo-Electron Tomography with a Volta Phase Plate. Microscopy and Microanalysis, 2015, 21, 1393-1394.	0.4	3
54	A molecular census of 26 <i>S</i> proteasomes in intact neurons. Science, 2015, 347, 439-442.	12.6	287

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55	Electron cryotomography of vitrified cells with a Volta phase plate. Journal of Structural Biology, 2015, 190, 143-154.	2.8	140
56	Effect of fringe-artifact correction on sub-tomogram averaging from Zernike phase-plate cryo-TEM. Journal of Structural Biology, 2015, 191, 299-305.	2.8	10
57	Volta potential phase plate for in-focus phase contrast transmission electron microscopy. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 15635-15640.	7.1	448
58	Automated Cryo-tomography and Single Particle Analysis with a New Type of Phase Plate. Microscopy and Microanalysis, 2014, 20, 206-207.	0.4	5
59	Phase-Contrast Cryo-Electron Tomography of Primary Cultured Neuronal Cells. Microscopy and Microanalysis, 2014, 20, 208-209.	0.4	0
60	Challenges in Phase Plate Product Development. Microscopy and Microanalysis, 2014, 20, 218-219.	0.4	2
61	Phase Contrast Cryo-Electron Tomography and Single Particle Analysis with a New Phase Plate. Microscopy and Microanalysis, 2014, 20, 232-233.	0.4	1
62	Artifact Correction for Zernike Phase-Plate Cryo-Electron Tomography. Microscopy and Microanalysis, 2014, 20, 234-235.	0.4	2
63	Minimizing electrostatic charging of an aperture used to produce in-focus phase contrast in the TEM. Ultramicroscopy, 2013, 135, 6-15.	1.9	18
64	Non-acid-fastness in Mycobacterium tuberculosis Î”kasB mutant correlates with the cell envelope electron density. Tuberculosis, 2012, 92, 351-357.	1.9	22
65	Optimizing the phase shift and the cut-on periodicity of phase plates for TEM. Ultramicroscopy, 2011, 111, 1305-1315.	1.9	48
66	Systemic delivery of siRNA to tumors using a lipid nanoparticle containing a tumor-specific cleavable PEG-lipid. Biomaterials, 2011, 32, 4306-4316.	11.4	193
67	Zernike Phase Contrast Cryo-Electron Microscopy and Tomography for Structure Determination at Nanometer and Subnanometer Resolutions. Structure, 2010, 18, 903-912.	3.3	118
68	Immunolocalization of multiple membrane proteins on a carbon replica with STEM and EDX. Ultramicroscopy, 2010, 110, 366-374.	1.9	17
69	A 3.5-nm Structure of Rat TRPV4 Cation Channel Revealed by Zernike Phase-contrast Cryoelectron Microscopy. Journal of Biological Chemistry, 2010, 285, 11210-11218.	3.4	78
70	Phase Plates for Transmission Electron Microscopy. Methods in Enzymology, 2010, 481, 343-369.	1.0	49
71	Strain-Induced Crystallization of Fractionated Natural Rubber from Fresh Latex. Zairyo/Journal of the Society of Materials Science, Japan, 2009, 58, 5-10.	0.2	2
72	High-contrast imaging of plastic-embedded tissues by phase contrast electron microscopy. Journal of Electron Microscopy, 2009, 58, 35-45.	0.9	3

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73	Envelope-type lipid nanoparticles incorporating a short PEG-lipid conjugate for improved control of intracellular trafficking and transgene transcription. Biomaterials, 2009, 30, 4806-4814.	11.4	41
74	Phase-plate electron microscopy: a novel imaging tool to reveal close-to-life nano-structures. Biophysical Reviews, 2009, 1, 37-42.	3.2	28
75	Multi-layered nanoparticles for penetrating the endosome and nuclear membrane via a step-wise membrane fusion process. Biomaterials, 2009, 30, 2940-2949.	11.4	133
76	Practical factors affecting the performance of a thin-film phase plate for transmission electron microscopy. Ultramicroscopy, 2009, 109, 312-325.	1.9	116
77	An artificial virus-like nano carrier system: enhanced endosomal escape of nanoparticles via synergistic action of pH-sensitive fusogenic peptide derivatives. Analytical and Bioanalytical Chemistry, 2008, 391, 2717-2727.	3.7	111
78	Single particle analysis based on Zernike phase contrast transmission electron microscopy. Journal of Structural Biology, 2008, 161, 211-218.	2.8	96
79	Growth Process and Molecular Packing of a Self-assembled Lipid Nanotube:â€‰ Phase-Contrast Transmission Electron Microscopy and XRD Analyses. Langmuir, 2008, 24, 709-713.	3.5	47
80	Decaarginine-PEG-Artificial Lipid/DNA Complex for Gene Delivery: Nanostructure and Transfection Efficiency. Journal of Nanoscience and Nanotechnology, 2008, 8, 2308-2315.	0.9	25
81	Transition from Nanotubes to Micelles with Increasing Concentration in Dilute Aqueous Solution of PotassiumN-Acyl Phenylalaninate. Langmuir, 2006, 22, 8472-8477.	3.5	32
82	Self-assembly of nano-sized arrays on highly oriented thin films of poly(tetrafluoroethylene). Polymer, 2006, 47, 951-955.	3.8	11
83	Intact Carboxysomes in a Cyanobacterial Cell Visualized by Hilbert Differential Contrast Transmission Electron Microscopy. Journal of Bacteriology, 2006, 188, 805-808.	2.2	74
84	In vivo subcellular ultrastructures recognized with Hilbert differential contrast transmission electron microscopy. Journal of Electron Microscopy, 2005, 54, 79-84.	0.9	54
85	Application of Phase Contrast Transmission Microscopic Methods to Polymer Materials. Macromolecules, 2005, 38, 7884-7886.	4.8	35
86	Complex Observation in Electron Microscopy: IV. Reconstruction of Complex Object Wave from Conventional and Half Plane Phase Plate Image Pair. Journal of the Physical Society of Japan, 2004, 73, 2718-2724.	1.6	42
87	Theory of asymmetrical phase plates and its application to TEM. Seibutsu Butsuri, 2003, 43, S117.	0.1	0
88	Complex Observation in Electron Microscopy. II. Direct Visualization of Phases and Amplitudes of Exit Wave Functions. Journal of the Physical Society of Japan, 2001, 70, 696-702.	1.6	36
89	Electric charging of thin films measured using the contrast transfer function. Ultramicroscopy, 2001, 87, 45-54.	1.9	24
90	Transmission electron microscopy with Zernike phase plate. Ultramicroscopy, 2001, 88, 243-252.	1.9	260