

Radostin Danev

List of Publications by Year in descending order

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90
papers

6,207
citations

81900

39
h-index

79698

73
g-index

105
all docs

105
docs citations

105
times ranked

5989
citing authors

#	ARTICLE	IF	CITATIONS
1	Visualizing the molecular sociology at the HeLa cell nuclear periphery. <i>Science</i> , 2016, 351, 969-972.	12.6	493
2	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, 15635-15640.	7.1	448
3	Phase-plate cryo-EM structure of a class B GPCR-G-protein complex. <i>Nature</i> , 2017, 546, 118-123.	27.8	424
4	A molecular census of 26 <i>S</i> proteasomes in intact neurons. <i>Science</i> , 2015, 347, 439-442.	12.6	287
5	Structure of the adenosine-bound human adenosine A1 receptor-Gi complex. <i>Nature</i> , 2018, 558, 559-563.	27.8	274
6	Phase-plate cryo-EM structure of a biased agonist-bound human GLP-1 receptor-Gs complex. <i>Nature</i> , 2018, 555, 121-125.	27.8	263
7	Transmission electron microscopy with Zernike phase plate. <i>Ultramicroscopy</i> , 2001, 88, 243-252.	1.9	260
8	Cryo-EM structure of haemoglobin at 3.2 Å... determined with the Volta phase plate. <i>Nature Communications</i> , 2017, 8, 16099.	12.8	211
9	Systemic delivery of siRNA to tumors using a lipid nanoparticle containing a tumor-specific cleavable PEG-lipid. <i>Biomaterials</i> , 2011, 32, 4306-4316.	11.4	193
10	Cryo-Electron Microscopy Methodology: Current Aspects and Future Directions. <i>Trends in Biochemical Sciences</i> , 2019, 44, 837-848.	7.5	176
11	Cryo-EM single particle analysis with the Volta phase plate. <i>ELife</i> , 2016, 5, .	6.0	141
12	Electron cryotomography of vitrified cells with a Volta phase plate. <i>Journal of Structural Biology</i> , 2015, 190, 143-154.	2.8	140
13	Multi-layered nanoparticles for penetrating the endosome and nuclear membrane via a step-wise membrane fusion process. <i>Biomaterials</i> , 2009, 30, 2940-2949.	11.4	133
14	Activation of the GLP-1 receptor by a non-peptidic agonist. <i>Nature</i> , 2020, 577, 432-436.	27.8	119
15	Zernike Phase Contrast Cryo-Electron Microscopy and Tomography for Structure Determination at Nanometer and Subnanometer Resolutions. <i>Structure</i> , 2010, 18, 903-912.	3.3	118
16	Practical factors affecting the performance of a thin-film phase plate for transmission electron microscopy. <i>Ultramicroscopy</i> , 2009, 109, 312-325.	1.9	116
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, 2717-2727.	3.7	111
18	Differential GLP-1R Binding and Activation by Peptide and Non-peptide Agonists. <i>Molecular Cell</i> , 2020, 80, 485-500.e7.	9.7	111

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19	Using the Volta phase plate with defocus for cryo-EM single particle analysis. <i>ELife</i> , 2017, 6, .	6.0	109
20	Single particle analysis based on Zernike phase contrast transmission electron microscopy. <i>Journal of Structural Biology</i> , 2008, 161, 211-218.	2.8	96
21	Toward a Structural Understanding of Class B GPCR Peptide Binding and Activation. <i>Molecular Cell</i> , 2020, 77, 656-668.e5.	9.7	92
22	Expanding the boundaries of cryo-EM with phase plates. <i>Current Opinion in Structural Biology</i> , 2017, 46, 87-94.	5.7	87
23	Positive allosteric mechanisms of adenosine A1 receptor-mediated analgesia. <i>Nature</i> , 2021, 597, 571-576.	27.8	84
24	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, 11210-11218.	3.4	78
25	3.9 Å... structure of the nucleosome core particle determined by phase-plate cryo-EM. <i>Nucleic Acids Research</i> , 2016, 44, 8013-8019.	14.5	78
26	Intact Carboxysomes in a Cyanobacterial Cell Visualized by Hilbert Differential Contrast Transmission Electron Microscopy. <i>Journal of Bacteriology</i> , 2006, 188, 805-808.	2.2	74
27	Subtomogram analysis using the Volta phase plate. <i>Journal of Structural Biology</i> , 2017, 197, 94-101.	2.8	71
28	Structure and Dynamics of Adrenomedullin Receptors AM ₁ and AM ₂ 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.	4.9	71
29	Improved applicability and robustness of fast cryo-electron tomography data acquisition. <i>Journal of Structural Biology</i> , 2019, 208, 107-114.	2.8	70
30	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.	7.1	65
31	Volta phase plate cryo-EM of the small protein complex Prx3. <i>Nature Communications</i> , 2016, 7, 10534.	12.8	64
32	Structure and dynamics of the CGRP receptor in apo and peptide-bound forms. <i>Science</i> , 2021, 372, .	12.6	57
33	In vivo subcellular ultrastructures recognized with Hilbert differential contrast transmission electron microscopy. <i>Journal of Electron Microscopy</i> , 2005, 54, 79-84.	0.9	54
34	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.	7.1	51
35	Phase Plates for Transmission Electron Microscopy. <i>Methods in Enzymology</i> , 2010, 481, 343-369.	1.0	49
36	Optimizing the phase shift and the cut-on periodicity of phase plates for TEM. <i>Ultramicroscopy</i> , 2011, 111, 1305-1315.	1.9	48

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37	Growth Process and Molecular Packing of a Self-assembled Lipid Nanotube: Phase-Contrast Transmission Electron Microscopy and XRD Analyses. <i>Langmuir</i> , 2008, 24, 709-713.	3.5	47
38	Structure and dynamics of the active Gs-coupled human secretin receptor. <i>Nature Communications</i> , 2020, 11, 4137.	12.8	46
39	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.	1.6	42
40	Envelope-type lipid nanoparticles incorporating a short PEG-lipid conjugate for improved control of intracellular trafficking and transgene transcription. <i>Biomaterials</i> , 2009, 30, 4806-4814.	11.4	41
41	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.	5.6	41
42	Routine sub-2.5Å... cryo-EM structure determination of GPCRs. <i>Nature Communications</i> , 2021, 12, 4333.	12.8	37
43	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.	1.6	36
44	Application of Phase Contrast Transmission Microscopic Methods to Polymer Materials. <i>Macromolecules</i> , 2005, 38, 7884-7886.	4.8	35
45	Transition from Nanotubes to Micelles with Increasing Concentration in Dilute Aqueous Solution of Potassium N-Acyl Phenylalaninate. <i>Langmuir</i> , 2006, 22, 8472-8477.	3.5	32
46	Cryo-electron microscopy structure of the glucagon receptor with a dual-agonist peptide. <i>Journal of Biological Chemistry</i> , 2020, 295, 9313-9325.	3.4	31
47	Dynamics of GLP-1R peptide agonist engagement are correlated with kinetics of G protein activation. <i>Nature Communications</i> , 2022, 13, 92.	12.8	30
48	Evolving cryo-EM structural approaches for GPCR drug discovery. <i>Structure</i> , 2021, 29, 963-974.e6.	3.3	29
49	Phase-plate electron microscopy: a novel imaging tool to reveal close-to-life nano-structures. <i>Biophysical Reviews</i> , 2009, 1, 37-42.	3.2	28
50	A structural basis for amylin receptor phenotype. <i>Science</i> , 2022, 375, eabm9609.	12.6	28
51	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.	14.5	27
52	Structure and dynamics of semaglutide- and taspoglutide-bound GLP-1R-Gs complexes. <i>Cell Reports</i> , 2021, 36, 109374.	6.4	27
53	Decaarginine-PEG-Artificial Lipid/DNA Complex for Gene Delivery: Nanostructure and Transfection Efficiency. <i>Journal of Nanoscience and Nanotechnology</i> , 2008, 8, 2308-2315.	0.9	25
54	Electric charging of thin films measured using the contrast transfer function. <i>Ultramicroscopy</i> , 2001, 87, 45-54.	1.9	24

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55	Volta phase plate data collection facilitates image processing and cryo-EM structure determination. <i>Journal of Structural Biology</i> , 2018, 202, 191-199.	2.8	24
56	Structural and functional diversity among agonist-bound states of the GLP-1 receptor. <i>Nature Chemical Biology</i> , 2022, 18, 256-263.	8.0	24
57	Non-acid-fastness in <i>Mycobacterium tuberculosis</i> \hat{r} kasB mutant correlates with the cell envelope electron density. <i>Tuberculosis</i> , 2012, 92, 351-357.	1.9	22
58	Revisiting the Structure of Hemoglobin and Myoglobin with Cryo-Electron Microscopy. <i>Journal of Molecular Biology</i> , 2017, 429, 2611-2618.	4.2	22
59	Spectral DQE of the Volta phase plate. <i>Ultramicroscopy</i> , 2020, 218, 113079.	1.9	21
60	Minimizing electrostatic charging of an aperture used to produce in-focus phase contrast in the TEM. <i>Ultramicroscopy</i> , 2013, 135, 6-15.	1.9	18
61	Immunolocalization of multiple membrane proteins on a carbon replica with STEM and EDX. <i>Ultramicroscopy</i> , 2010, 110, 366-374.	1.9	17
62	Cryo-EM performance testing of hardware and data acquisition strategies. <i>Microscopy (Oxford)</i> , 2021, 2021, 113079.	1.5	17
63	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.	2.1	14
64	Self-assembly of nano-sized arrays on highly oriented thin films of poly(tetrafluoroethylene). <i>Polymer</i> , 2006, 47, 951-955.	3.8	11
65	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.	2.8	10
66	Fast and accurate defocus modulation for improved tunability of cryo-EM experiments. <i>IUCr</i> , 2020, 7, 566-574.	2.2	6
67	Automated Cryo-tomography and Single Particle Analysis with a New Type of Phase Plate. <i>Microscopy and Microanalysis</i> , 2014, 20, 206-207.	0.4	5
68	High-contrast imaging of plastic-embedded tissues by phase contrast electron microscopy. <i>Journal of Electron Microscopy</i> , 2009, 58, 35-45.	0.9	3
69	Combination of Different Techniques in Cryo-Electron Tomography with a Volta Phase Plate. <i>Microscopy and Microanalysis</i> , 2015, 21, 1393-1394.	0.4	3
70	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.	0.2	2
71	Challenges in Phase Plate Product Development. <i>Microscopy and Microanalysis</i> , 2014, 20, 218-219.	0.4	2
72	Artifact Correction for Zernike Phase-Plate Cryo-Electron Tomography. <i>Microscopy and Microanalysis</i> , 2014, 20, 234-235.	0.4	2

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73	Solution Conformations of Peroxiredoxins Visualised by Volta Phase Plates. <i>Microscopy and Microanalysis</i> , 2016, 22, 70-71.	0.4	2
74	Phase Contrast Cryo-Electron Tomography and Single Particle Analysis with a New Phase Plate. <i>Microscopy and Microanalysis</i> , 2014, 20, 232-233.	0.4	1
75	Practical Aspects and Usage Tips for the Volta Phase Plate. <i>Microscopy and Microanalysis</i> , 2015, 21, 1391-1392.	0.4	1
76	In situ studies of cellular architecture by Electron Cryo-Tomography with Volta Phase Plate. <i>Microscopy and Microanalysis</i> , 2015, 21, 1835-1836.	0.4	1
77	Optimizing the FEI Volta Phase Plate for Efficient and Artefact-free Data Acquisition. <i>Microscopy and Microanalysis</i> , 2016, 22, 58-59.	0.4	1
78	Single Particle Analysis with the Volta Phase Plate. <i>Microscopy and Microanalysis</i> , 2016, 22, 82-83.	0.4	1
79	Biological Sciences Tutorial: CryoEM with Phase Plates. <i>Microscopy and Microanalysis</i> , 2017, 23, 1398-1399.	0.4	1
80	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.	0.4	1
81	Towards High Resolution in Cryo-Electron Tomography Subtomogram Analysis. <i>Microscopy and Microanalysis</i> , 2017, 23, 812-813.	0.4	1
82	Electrons see the light. <i>Nature Methods</i> , 2019, 16, 966-967.	19.0	1
83	Single Particle Imaging with the Volta Phase Plate. <i>Microscopy and Microanalysis</i> , 2019, 25, 7-8.	0.4	1
84	1S-B2-1 Single Particle Analysis Applications of the Volta Phase Plate. <i>Microscopy (Oxford, England)</i> , 2017, 66, i9-i9.	1.5	1
85	Electrons receive individual treatment with electron-event representation. <i>IUCr</i> , 2020, 7, 780-781.	2.2	1
86	Theory of asymmetrical phase plates and its application to TEM. <i>Seibutsu Butsuri</i> , 2003, 43, S117.	0.1	0
87	Phase-Contrast Cryo-Electron Tomography of Primary Cultured Neuronal Cells. <i>Microscopy and Microanalysis</i> , 2014, 20, 208-209.	0.4	0
88	High-resolution Imaging of Reconstituted Protein-DNA Complexes Using Phase Plate Electron Cryo Microscopy. <i>Microscopy and Microanalysis</i> , 2016, 22, 68-69.	0.4	0
89	Charting Molecular Landscapes Using Cryo-Electron Tomography. <i>Microscopy Today</i> , 2017, 25, 26-31.	0.3	0
90	Phase Contrast Single Particle Analysis at Atomic Resolutions. <i>Microscopy and Microanalysis</i> , 2017, 23, 816-817.	0.4	0