Deborah F Kelly

List of Publications by Year
in descending order

67 papers	1,372 citations	331670 21 h-index	377865 34 g-index
71 all docs	71 docs citations	71 times ranked	2678 citing authors

#	Article	IF	Citations
1	A rapid and high content assay that measures cyto-ID-stained autophagic compartments and estimates autophagy flux with potential clinical applications. Autophagy, 2015, 11, 560-572.	9.1	121
2	The Affinity Grid: A Pre-fabricated EM Grid for Monolayer Purification. Journal of Molecular Biology, 2008, 382, 423-433.	4.2	71
3	Monolayer purification: A rapid method for isolating protein complexes for single-particle electron microscopy. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 4703-4708.	7.1	68
4	Visualizing viral assemblies in a nanoscale biosphere. Lab on A Chip, 2013, 13, 216-219.	6.0	59
5	Toward Design of Magnetic Nanoparticle Clusters Stabilized by Biocompatible Diblock Copolymers for <i>T</i>₂-Weighted MRI Contrast. Langmuir, 2014, 30, 1580-1587.	3.5	59
6	Strategy for the Use of Affinity Grids to Prepare Non-His-Tagged Macromolecular Complexes for Single-Particle Electron Microscopy. Journal of Molecular Biology, 2010, 400, 675-681.	4.2	52
7	Real-Time Visualization of Nanoparticles Interacting with Glioblastoma Stem Cells. Nano Letters, 2015, 15, 2329-2335.	9.1	52
8	Survival kinase genes present prognostic significance in glioblastoma. Oncotarget, 2016, 7, 20140-20151.	1.8	48
9	Visualizing virus particle mobility in liquid at the nanoscale. Chemical Communications, 2015, 51, 16176-16179.	4.1	46
10	PIK3CB/p110Î² is a selective survival factor for glioblastoma. Neuro-Oncology, 2018, 20, 494-505.	1.2	43
11	7Ã… projection map of the S-layer protein sbpA obtained with trehalose-embedded monolayer crystals. Journal of Structural Biology, 2007, 160, 313-323.	2.8	42
12	Structure of the Î±-Actininâ€"Vinculin Head Domain Complex Determined by Cryo-electron Microscopy. Journal of Molecular Biology, 2006, 357, 562-573.	4.2	36
13	Molecular Structure and Dimeric Organization of the Notch Extracellular Domain as Revealed by Electron Microscopy. PLoS ONE, 2010, 5, e10532.	2.5	35
14	Improved Microchip Design and Application for <i>In Situ</i> Transmission Electron Microscopy of Macromolecules. Microscopy and Microanalysis, 2014, 20, 338-345.	0.4	34
15	A Practical Guide to the Use of Monolayer Purification and Affinity Grids. Methods in Enzymology, 2010, 481, 83-107.	1.0	32
16	Prolonged Particulate Hexavalent Chromium Exposure Suppresses Homologous Recombination Repair in Human Lung Cells. Toxicological Sciences, 2016, 153, 70-78.	3.1	32
17	Identification of the Î²1-integrin binding site on Î±-actinin by cryoelectron microscopy. Journal of Structural Biology, 2005, 149, 290-302.	2.8	31
18	Patient-derived glioblastoma stem cells respond differentially to targeted therapies. Oncotarget, 2016, 7, 86406-86419.	1.8	31

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19	Affinity grid-based cryo-EM of PKC binding to RACK1 on the ribosome. Journal of Structural Biology, 2013, 181, 190-194.	2.8	30
20	Liquid-Cell Electron Tomography of Biological Systems. Nano Letters, 2019, 19, 6734-6741.	9.1	29
21	Real-time observation of protein aggregates in pharmaceutical formulations using liquid cell electron microscopy. Lab on A Chip, 2017, 17, 315-322.	6.0	24
22	Casein Kinase 1 Epsilon Regulates Glioblastoma Cell Survival. Scientific Reports, 2018, 8, 13621.	3.3	24
23	Visualizing nanoparticle mobility in liquid at atomic resolution. Chemical Communications, 2013, 49, 3007-3009.	4.1	23
24	The development of affinity capture devicesâ€"a nanoscale purification platform for biological in situ transmission electron microscopy. RSC Advances, 2012, 2, 2408.	3.6	22
25	Activation of transfer RNA-guanine ribosyltransferase by protein kinase C. Nucleic Acids Research, 1995, 23, 2492-2498.	14.5	21
26	Electron microscopic analysis of rotavirus assembly-replication intermediates. Virology, 2015, 477, 32-41.	2.4	21
27	On the freezing and identification of lipid monolayer 2-D arrays for cryoelectron microscopy. Journal of Structural Biology, 2007, 160, 305-312.	2.8	20
28	The use of trehalose in the preparation of specimens for molecular electron microscopy. Micron, 2011, 42, 762-772.	2.2	20
29	Highâ€Resolution Imaging of Human Viruses in Liquid Droplets. Advanced Materials, 2021, 33, e2103221.	21.0	18
30	Rotavirus core shell subdomains involved in polymerase encapsidation into virus-like particles. Journal of General Virology, 2013, 94, 1818-1826.	2.9	17
31	Capturing Enveloped Viruses on Affinity Grids for Downstream Cryo-Electron Microscopy Applications. Microscopy and Microanalysis, 2014, 20, 164-174.	0.4	17
32	Structural analysis of BRCA1 reveals modification hotspot. Science Advances, 2017, 3, e1701386.	10.3	15
33	Microchip-based structure determination of low-molecular weight proteins using cryo-electron microscopy. Nanoscale, 2021, 13, 7285-7293.	5.6	14
34	Conformational variability of the intracellular domain of Drosophila Notch and its interaction with Suppressor of Hairless. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 9591-9596.	7.1	13
35	A Molecular Toolkit to Visualize Native Protein Assemblies in the Context of Human Disease. Scientific Reports, 2015, 5, 14440.	3.3	13
36	Manganese graft ionomer complexes (MaGICs) for dual imaging and chemotherapy. Journal of Materials Chemistry B, 2014, 2, 1087.	5.8	12

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37	Connexin 43 confers chemoresistance through activating PI3K. Oncogenesis, 2022, 11, 2.	4.9	11
38	A Tunable Approach to Visualize BRCA1 Assemblies in Hereditary Breast Cancer. Microscopy and Microanalysis, 2015, 21, 557-558.	0.4	10
39	A microchip platform for structural oncology applications. Npj Breast Cancer, 2016, 2, .	5.2	10
40	Structural and functional studies on the stalk of the transferrin receptor. Biochemical and Biophysical Research Communications, 2009, 381, 712-716.	2.1	9
41	Microchip-Based Structure Determination of Disease-Relevant p53. Analytical Chemistry, 2020, 92, 15558-15564.	6.5	9
42	In situ TEM of Biological Assemblies in Liquid. Journal of Visualized Experiments, 2013, , 50936.	0.3	8
43	Highâ€Resolution Imaging of Human Cancer Proteins Using Microprocessor Materials. ChemBioChem, 2022, 23, .	2.6	8
44	Molecular Analysis of BRCA1 in Human Breast Cancer Cells Under Oxidative Stress. Scientific Reports, 2017, 7, 43435.	3.3	7
45	Fast and easy protocol for the purification of recombinant Sâ€layer protein for synthetic biology applications. Biotechnology Journal, 2011, 6, 807-811.	3.5	5
46	CAPTURING RNA-DEPENDENT PATHWAYS FOR CRYO-EM ANALYSIS. Computational and Structural Biotechnology Journal, 2012, 1, e201204003.	4.1	5
47	Structural dynamics of viral nanomachines. Technology, 2014, 02, 44-48.	1.4	5
48	Cryo-EM Reveals Architectural Diversity in Active Rotavirus Particles. Computational and Structural Biotechnology Journal, 2019, 17, 1178-1183.	4.1	5
49	Cryoâ€EMâ€Onâ€aâ€Chip: Customâ€Designed Substrates for the 3D Analysis of Macromolecules. Small, 2019, 15, 1900918.	10.0	5
50	Preparation of Disease-Related Protein Assemblies for Single Particle Electron Microscopy. Methods in Molecular Biology, 2017, 1647, 185-196.	0.9	4
51	Preparation of Tunable Microchips to Visualize Native Protein Complexes for Single-Particle Electron Microscopy. Methods in Molecular Biology, 2018, 1764, 45-58.	0.9	4
52	Molecular Surveillance of Viral Processes Using Silicon Nitride Membranes. Micromachines, 2013, 4, 90-102.	2.9	3
53	Real-time imaging of lead nanoparticles in solution â€" determination of the growth mechanism. RSC Advances, 2015, 5, 104193-104197.	3.6	3
54	Customizable Cryo-EM Chips Improve 3D Analysis of Macromolecules. Microscopy and Microanalysis, 2019, 25, 1310-1311.	0.4	3

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55	Correcting errors in the BRCA1 warning system. DNA Repair, 2019, 73, 120-128.	2.8	3
56	A Non-Symmetric Reconstruction Technique for Transcriptionally-Active Viral Assemblies. Journal of Analytical & Molecular Techniques, 2015, 2, .	0.0	3
57	Tunable Substrates Improve Imaging of Viruses and Cancer Proteins. Microscopy Today, 2017, 25, 22-27.	0.3	2
58	Liquid Cell Electron Tomography for Biomedical Applications. Microscopy and Microanalysis, 2018, 24, 268-269.	0.4	2
59	Applications and Design of Reinforced Silicon Nitride Windows for <i>In Situ</i> Liquid Transmission Electron Microscopy. Microscopy and Microanalysis, 2014, 20, 1090-1091.	0.4	1
60	Automated Tools to Advance High-Resolution Imaging in Liquid. Microscopy and Microanalysis, 2022, , 1-10.	0.4	1
61	Improving Our Vision of Nanobiology. Microscopy and Microanalysis, 2015, 21, 1383-1384.	0.4	0
62	In situ TEM imaging of Nanoparticles interacting with Glioblastoma Stem Cells. Microscopy and Microanalysis, 2015, 21, 1297-1298.	0.4	0
63	Structural Oncology - Determining 3D Structures of Breast Cancer Assemblies. Microscopy and Microanalysis, 2016, 22, 1120-1121.	0.4	0
64	In Situ Liquid Cell Electron Microscopy: An Evolving Tool for Biomedical and Life Science Applications. Microscopy and Microanalysis, 2017, 23, 1254-1255.	0.4	0
65	Cryo-EM Reveals a Unique BRCA1 Complex in Metastasis. Microscopy and Microanalysis, 2018, 24, 1220-1221.	0.4	0
66	High Resolution Imaging of Virus in Liquid Droplets: The Application of Cryo-TEM Methodology to Improve Liquid-phase TEM Imaging of Biological Materials. Microscopy and Microanalysis, 2021, 27, 19-20.	0.4	0
67	Harnessing the Power of Structural Oncology. Microscopy Today, 2022, 30, 10-17.	0.3	0