

# Deborah F Kelly

## List of Publications by Year in descending order

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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	Connexin 43 confers chemoresistance through activating PI3K. <i>Oncogenesis</i> , 2022, 11, 2.	4.9	11
2	Automated Tools to Advance High-Resolution Imaging in Liquid. <i>Microscopy and Microanalysis</i> , 2022, , 1-10.	0.4	1
3	Harnessing the Power of Structural Oncology. <i>Microscopy Today</i> , 2022, 30, 10-17.	0.3	0
4	High-Resolution Imaging of Human Cancer Proteins Using Microprocessor Materials. <i>ChemBioChem</i> , 2022, 23, .	2.6	8
5	Microchip-based structure determination of low-molecular weight proteins using cryo-electron microscopy. <i>Nanoscale</i> , 2021, 13, 7285-7293.	5.6	14
6	High-Resolution Imaging of Human Viruses in Liquid Droplets. <i>Advanced Materials</i> , 2021, 33, e2103221.	21.0	18
7	High Resolution Imaging of Virus in Liquid Droplets: The Application of Cryo-TEM Methodology to Improve Liquid-phase TEM Imaging of Biological Materials. <i>Microscopy and Microanalysis</i> , 2021, 27, 19-20.	0.4	0
8	Microchip-Based Structure Determination of Disease-Relevant p53. <i>Analytical Chemistry</i> , 2020, 92, 15558-15564.	6.5	9
9	Customizable Cryo-EM Chips Improve 3D Analysis of Macromolecules. <i>Microscopy and Microanalysis</i> , 2019, 25, 1310-1311.	0.4	3
10	Cryo-EM Reveals Architectural Diversity in Active Rotavirus Particles. <i>Computational and Structural Biotechnology Journal</i> , 2019, 17, 1178-1183.	4.1	5
11	Liquid-Cell Electron Tomography of Biological Systems. <i>Nano Letters</i> , 2019, 19, 6734-6741.	9.1	29
12	Cryo-EM on a Chip: Custom-Designed Substrates for the 3D Analysis of Macromolecules. <i>Small</i> , 2019, 15, 1900918.	10.0	5
13	Correcting errors in the BRCA1 warning system. <i>DNA Repair</i> , 2019, 73, 120-128.	2.8	3
14	Preparation of Tunable Microchips to Visualize Native Protein Complexes for Single-Particle Electron Microscopy. <i>Methods in Molecular Biology</i> , 2018, 1764, 45-58.	0.9	4
15	PIK3CB/p110 <sup>β</sup> is a selective survival factor for glioblastoma. <i>Neuro-Oncology</i> , 2018, 20, 494-505.	1.2	43
16	Liquid Cell Electron Tomography for Biomedical Applications. <i>Microscopy and Microanalysis</i> , 2018, 24, 268-269.	0.4	2
17	Casein Kinase 1 Epsilon Regulates Glioblastoma Cell Survival. <i>Scientific Reports</i> , 2018, 8, 13621.	3.3	24
18	Cryo-EM Reveals a Unique BRCA1 Complex in Metastasis. <i>Microscopy and Microanalysis</i> , 2018, 24, 1220-1221.	0.4	0

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19	Molecular Analysis of BRCA1 in Human Breast Cancer Cells Under Oxidative Stress. <i>Scientific Reports</i> , 2017, 7, 43435.	3.3	7
20	Real-time observation of protein aggregates in pharmaceutical formulations using liquid cell electron microscopy. <i>Lab on A Chip</i> , 2017, 17, 315-322.	6.0	24
21	Tunable Substrates Improve Imaging of Viruses and Cancer Proteins. <i>Microscopy Today</i> , 2017, 25, 22-27.	0.3	2
22	Preparation of Disease-Related Protein Assemblies for Single Particle Electron Microscopy. <i>Methods in Molecular Biology</i> , 2017, 1647, 185-196.	0.9	4
23	Structural analysis of BRCA1 reveals modification hotspot. <i>Science Advances</i> , 2017, 3, e1701386.	10.3	15
24	In Situ Liquid Cell Electron Microscopy: An Evolving Tool for Biomedical and Life Science Applications. <i>Microscopy and Microanalysis</i> , 2017, 23, 1254-1255.	0.4	0
25	Structural Oncology - Determining 3D Structures of Breast Cancer Assemblies. <i>Microscopy and Microanalysis</i> , 2016, 22, 1120-1121.	0.4	0
26	Prolonged Particulate Hexavalent Chromium Exposure Suppresses Homologous Recombination Repair in Human Lung Cells. <i>Toxicological Sciences</i> , 2016, 153, 70-78.	3.1	32
27	A microchip platform for structural oncology applications. <i>Npj Breast Cancer</i> , 2016, 2, .	5.2	10
28	Patient-derived glioblastoma stem cells respond differentially to targeted therapies. <i>Oncotarget</i> , 2016, 7, 86406-86419.	1.8	31
29	Survival kinase genes present prognostic significance in glioblastoma. <i>Oncotarget</i> , 2016, 7, 20140-20151.	1.8	48
30	Improving Our Vision of Nanobiology. <i>Microscopy and Microanalysis</i> , 2015, 21, 1383-1384.	0.4	0
31	A Molecular Toolkit to Visualize Native Protein Assemblies in the Context of Human Disease. <i>Scientific Reports</i> , 2015, 5, 14440.	3.3	13
32	In situ TEM imaging of Nanoparticles interacting with Glioblastoma Stem Cells. <i>Microscopy and Microanalysis</i> , 2015, 21, 1297-1298.	0.4	0
33	A Tunable Approach to Visualize BRCA1 Assemblies in Hereditary Breast Cancer. <i>Microscopy and Microanalysis</i> , 2015, 21, 557-558.	0.4	10
34	Real-time imaging of lead nanoparticles in solution – determination of the growth mechanism. <i>RSC Advances</i> , 2015, 5, 104193-104197.	3.6	3
35	Electron microscopic analysis of rotavirus assembly-replication intermediates. <i>Virology</i> , 2015, 477, 32-41.	2.4	21
36	A rapid and high content assay that measures cyto-ID-stained autophagic compartments and estimates autophagy flux with potential clinical applications. <i>Autophagy</i> , 2015, 11, 560-572.	9.1	121

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37	Real-Time Visualization of Nanoparticles Interacting with Glioblastoma Stem Cells. Nano Letters, 2015, 15, 2329-2335.	9.1	52
38	Visualizing virus particle mobility in liquid at the nanoscale. Chemical Communications, 2015, 51, 16176-16179.	4.1	46
39	A Non-Symmetric Reconstruction Technique for Transcriptionally-Active Viral Assemblies. Journal of Analytical & Molecular Techniques, 2015, 2, .	0.0	3
40	Structural dynamics of viral nanomachines. Technology, 2014, 02, 44-48.	1.4	5
41	Capturing Enveloped Viruses on Affinity Grids for Downstream Cryo-Electron Microscopy Applications. Microscopy and Microanalysis, 2014, 20, 164-174.	0.4	17
42	Manganese graft ionomer complexes (MaGICs) for dual imaging and chemotherapy. Journal of Materials Chemistry B, 2014, 2, 1087.	5.8	12
43	Toward Design of Magnetic Nanoparticle Clusters Stabilized by Biocompatible Diblock Copolymers for <i>T<sub>2</sub>-Weighted MRI Contrast</i> . Langmuir, 2014, 30, 1580-1587.	3.5	59
44	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
45	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
46	Affinity grid-based cryo-EM of PKC binding to RACK1 on the ribosome. Journal of Structural Biology, 2013, 181, 190-194.	2.8	30
47	Rotavirus core shell subdomains involved in polymerase encapsidation into virus-like particles. Journal of General Virology, 2013, 94, 1818-1826.	2.9	17
48	Visualizing viral assemblies in a nanoscale biosphere. Lab on A Chip, 2013, 13, 216-219.	6.0	59
49	Visualizing nanoparticle mobility in liquid at atomic resolution. Chemical Communications, 2013, 49, 3007-3009.	4.1	23
50	<i>In situ</i> TEM of Biological Assemblies in Liquid. Journal of Visualized Experiments, 2013, , 50936.	0.3	8
51	Molecular Surveillance of Viral Processes Using Silicon Nitride Membranes. Micromachines, 2013, 4, 90-102.	2.9	3
52	The development of affinity capture devices—a nanoscale purification platform for biological in situ transmission electron microscopy. RSC Advances, 2012, 2, 2408.	3.6	22
53	CAPTURING RNA-DEPENDENT PATHWAYS FOR CRYO-EM ANALYSIS. Computational and Structural Biotechnology Journal, 2012, 1, e201204003.	4.1	5
54	Fast and easy protocol for the purification of recombinant S-layer protein for synthetic biology applications. Biotechnology Journal, 2011, 6, 807-811.	3.5	5

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55	The use of trehalose in the preparation of specimens for molecular electron microscopy. <i>Micron</i> , 2011, 42, 762-772.	2.2	20
56	Strategy for the Use of Affinity Grids to Prepare Non-His-Tagged Macromolecular Complexes for Single-Particle Electron Microscopy. <i>Journal of Molecular Biology</i> , 2010, 400, 675-681.	4.2	52
57	A Practical Guide to the Use of Monolayer Purification and Affinity Grids. <i>Methods in Enzymology</i> , 2010, 481, 83-107.	1.0	32
58	Molecular Structure and Dimeric Organization of the Notch Extracellular Domain as Revealed by Electron Microscopy. <i>PLoS ONE</i> , 2010, 5, e10532.	2.5	35
59	Structural and functional studies on the stalk of the transferrin receptor. <i>Biochemical and Biophysical Research Communications</i> , 2009, 381, 712-716.	2.1	9
60	The Affinity Grid: A Pre-fabricated EM Grid for Monolayer Purification. <i>Journal of Molecular Biology</i> , 2008, 382, 423-433.	4.2	71
61	Monolayer purification: A rapid method for isolating protein complexes for single-particle electron microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 4703-4708.	7.1	68
62	Conformational variability of the intracellular domain of Drosophila Notch and its interaction with Suppressor of Hairless. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 9591-9596.	7.1	13
63	On the freezing and identification of lipid monolayer 2-D arrays for cryoelectron microscopy. <i>Journal of Structural Biology</i> , 2007, 160, 305-312.	2.8	20
64	7Å... projection map of the S-layer protein sbpA obtained with trehalose-embedded monolayer crystals. <i>Journal of Structural Biology</i> , 2007, 160, 313-323.	2.8	42
65	Structure of the $\beta$ -Actinin-Vinculin Head Domain Complex Determined by Cryo-electron Microscopy. <i>Journal of Molecular Biology</i> , 2006, 357, 562-573.	4.2	36
66	Identification of the $\beta$ 1-integrin binding site on $\beta$ -actinin by cryoelectron microscopy. <i>Journal of Structural Biology</i> , 2005, 149, 290-302.	2.8	31
67	Activation of transfer RNA-guanine ribosyltransferase by protein kinase C. <i>Nucleic Acids Research</i> , 1995, 23, 2492-2498.	14.5	21