

Sharon G Wolf

List of Publications by Year in descending order

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Version: 2024-02-01

81
papers

7,112
citations

76294

40
h-index

64755

79
g-index

85
all docs

85
docs citations

85
times ranked

8330
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Structure of the $\beta\gamma$ tubulin dimer by electron crystallography. <i>Nature</i> , 1998, 391, 199-203. | 13.7 | 1,969 |
| 2 | Structure of tubulin at 6.5 Å... and location of the taxol-binding site. <i>Nature</i> , 1995, 375, 424-427. | 13.7 | 360 |
| 3 | DNA protection by stress-induced biocrystallization. <i>Nature</i> , 1999, 400, 83-85. | 13.7 | 359 |
| 4 | Doublecortin, a Stabilizer of Microtubules. <i>Human Molecular Genetics</i> , 1999, 8, 1599-1610. | 1.4 | 245 |
| 5 | Supramolecular Gel Based on a Perylene Diimide Dye: Multiple Stimuli Responsiveness, Robustness, and Photofunction. <i>Journal of the American Chemical Society</i> , 2009, 131, 14365-14373. | 6.6 | 205 |
| 6 | Enantioselective control of lattice and shape chirality in inorganic nanostructures using chiral biomolecules. <i>Nature Communications</i> , 2014, 5, 4302. | 5.8 | 187 |
| 7 | Two-Dimensional Crystallography of Amphiphilic Molecules at the Air-Water Interface. <i>Angewandte Chemie International Edition in English</i> , 1992, 31, 130-152. | 4.4 | 174 |
| 8 | Pathway-Dependent Self-Assembly of Perylene Diimide/Peptide Conjugates in Aqueous Medium. <i>Chemistry - A European Journal</i> , 2011, 17, 6068-6075. | 1.7 | 171 |
| 9 | Regulated phase transitions of bacterial chromatin: a non-enzymatic pathway for generic DNA protection. <i>EMBO Journal</i> , 2001, 20, 1184-1191. | 3.5 | 168 |
| 10 | Stereochemical studies in crystal nucleation. Oriented crystal growth of glycine at interfaces covered with Langmuir and Langmuir-Blodgett films of resolved α -amino acids. <i>Journal of the American Chemical Society</i> , 1989, 111, 1436-1445. | 6.6 | 143 |
| 11 | Global aggregation of newly translated proteins in an <i>Escherichia coli</i> strain deficient of the chaperonin GroEL. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 15800-15805. | 3.3 | 141 |
| 12 | Nucleoid restructuring in stationary-state bacteria. <i>Molecular Microbiology</i> , 2004, 51, 395-405. | 1.2 | 128 |
| 13 | Damage-free vibrational spectroscopy of biological materials in the electron microscope. <i>Nature Communications</i> , 2016, 7, 10945. | 5.8 | 124 |
| 14 | Doublecortin mutations cluster in evolutionarily conserved functional domains. <i>Human Molecular Genetics</i> , 2000, 9, 703-712. | 1.4 | 115 |
| 15 | Cryo-scanning transmission electron tomography of vitrified cells. <i>Nature Methods</i> , 2014, 11, 423-428. | 9.0 | 115 |
| 16 | Control over Self-Assembly through Reversible Charging of the Aromatic Building Blocks in Photofunctional Supramolecular Fibers. <i>Journal of the American Chemical Society</i> , 2008, 130, 14966-14967. | 6.6 | 105 |
| 17 | Elucidation of the two-dimensional structure of an α -amino acid surfactant monolayer on water using synchrotron X-ray diffraction. <i>Nature</i> , 1987, 328, 63-66. | 13.7 | 101 |
| 18 | Sequential ATP-induced allosteric transitions of the cytoplasmic chaperonin containing TCP-1 revealed by EM analysis. <i>Nature Structural and Molecular Biology</i> , 2005, 12, 233-237. | 3.6 | 100 |

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|----|---|------|-----------|
| 19 | Economical Design in Noncovalent Nanoscale Synthesis: Diverse Photofunctional Nanostructures Based on a Single Covalent Building Block. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 926-930. | 7.2 | 84 |
| 20 | Ordered intracellular RecA-DNA assemblies: A potential site of in vivo RecA-mediated activities. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000, 97, 6791-6796. | 3.3 | 81 |
| 21 | 3D visualization of mitochondrial solid-phase calcium stores in whole cells. <i>ELife</i> , 2017, 6, . | 2.8 | 78 |
| 22 | The Structural Basis of the Thermostability of SP1, a Novel Plant (<i>Populus tremula</i>) Boiling Stable Protein. <i>Journal of Biological Chemistry</i> , 2004, 279, 51516-51523. | 1.6 | 73 |
| 23 | Hijacking of an autophagy-like process is critical for the life cycle of a <scp>DNA</scp> virus infecting oceanic algal blooms. <i>New Phytologist</i> , 2014, 204, 854-863. | 3.5 | 71 |
| 24 | SP1 Protein-Based Nanostructures and Arrays. <i>Nano Letters</i> , 2008, 8, 473-477. | 4.5 | 70 |
| 25 | Real-time molecular scale observation of crystal formation. <i>Nature Chemistry</i> , 2017, 9, 369-373. | 6.6 | 69 |
| 26 | A mechanism of ferritin crystallization revealed by cryo-STEM tomography. <i>Nature</i> , 2020, 579, 540-543. | 13.7 | 68 |
| 27 | Three-dimensional Reconstruction of <i>Agrobacterium</i> VirE2 Protein with Single-stranded DNA. <i>Journal of Biological Chemistry</i> , 2004, 279, 25359-25363. | 1.6 | 63 |
| 28 | The DCX Superfamily 1: Common and Divergent Roles for Members of the Mouse DCX Superfamily. <i>Cell Cycle</i> , 2006, 5, 976-983. | 1.3 | 62 |
| 29 | Three-Dimensional Structure of the Native Spliceosome by Cryo-Electron Microscopy. <i>Molecular Cell</i> , 2004, 15, 833-839. | 4.5 | 61 |
| 30 | Toward Atomic-Scale Bright-Field Electron Tomography for the Study of Fullerene-Like Nanostructures. <i>Nano Letters</i> , 2008, 8, 891-896. | 4.5 | 61 |
| 31 | Dynamics of two-dimensional self-aggregation: pressure and pH-induced structural changes in a fluorocarbon amphiphile at liquid-air interfaces. An x-ray synchrotron study. <i>Journal of the American Chemical Society</i> , 1990, 112, 7724-7736. | 6.6 | 60 |
| 32 | Communication via extracellular vesicles enhances viral infection of a cosmopolitan alga. <i>Nature Microbiology</i> , 2017, 2, 1485-1492. | 5.9 | 56 |
| 33 | Cell-free protein synthesis and assembly on a biochip. <i>Nature Nanotechnology</i> , 2012, 7, 374-378. | 15.6 | 54 |
| 34 | A Synchrotron X-ray Study of a Solid-Solid Phase Transition in a Two-Dimensional Crystal. <i>Science</i> , 1988, 242, 1286-1290. | 6.0 | 51 |
| 35 | A Chlorophyll a/b-binding Protein Homolog That Is Induced by Iron Deficiency Is Associated with Enlarged Photosystem I Units in the Eucaryotic Alga <i>Dunaliella salina</i> . <i>Journal of Biological Chemistry</i> , 2006, 281, 10305-10315. | 1.6 | 46 |
| 36 | Metallic Nanobowls by Galvanic Replacement Reaction on Heterodimeric Nanoparticles. <i>Small</i> , 2012, 8, 654-660. | 5.2 | 46 |

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|----|---|-----|-----------|
| 37 | Relation between Serum Amyloid A Truncated Peptides and Their Suprastructure Chirality. <i>Journal of the American Chemical Society</i> , 2010, 132, 4242-4248. | 6.6 | 45 |
| 38 | Crystal structure of the <i>Agrobacterium</i> virulence complex VirE1-VirE2 reveals a flexible protein that can accommodate different partners. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 11170-11175. | 3.3 | 44 |
| 39 | Structure of the DNA-SspC Complex: Implications for DNA Packaging, Protection, and Repair in Bacterial Spores. <i>Journal of Bacteriology</i> , 2004, 186, 3525-3530. | 1.0 | 43 |
| 40 | Formation of 3D Cholesterol Crystals from 2D Nucleation Sites in Lipid Bilayer Membranes: Implications for Atherosclerosis. <i>Journal of the American Chemical Society</i> , 2015, 137, 1601-1607. | 6.6 | 42 |
| 41 | Ribosome-associated vesicles: A dynamic subcompartment of the endoplasmic reticulum in secretory cells. <i>Science Advances</i> , 2020, 6, eaay9572. | 4.7 | 42 |
| 42 | Conversion of the allosteric transition of GroEL from concerted to sequential by the single mutation Asp-155 -> Ala. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 13797-13802. | 3.3 | 36 |
| 43 | Aspen SP1, an exceptional thermal, protease and detergent-resistant self-assembled nano-particle. <i>Biotechnology and Bioengineering</i> , 2006, 95, 161-168. | 1.7 | 36 |
| 44 | Investigation of Model Membrane Disruption Mechanism by Melittin using Pulse Electron Paramagnetic Resonance Spectroscopy and Cryogenic Transmission Electron Microscopy. <i>Journal of Physical Chemistry B</i> , 2012, 116, 179-188. | 1.2 | 36 |
| 45 | Preservation of 2-D Crystals of Tubulin for Electron Crystallography. <i>Journal of Structural Biology</i> , 1995, 115, 199-208. | 1.3 | 34 |
| 46 | Distinct biological events generated by ECM proteolysis by two homologous collagenases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 10884-10889. | 3.3 | 34 |
| 47 | Tubulin Conformation in Zinc-Induced Sheets and Macrotubes. <i>Journal of Structural Biology</i> , 1993, 111, 190-199. | 1.3 | 33 |
| 48 | Reactivity and O ₂ Formation by Mn(IV)- and Mn(V)-Hydroxo Species Stabilized within a Polyfluoroxometalate Framework. <i>Journal of the American Chemical Society</i> , 2015, 137, 8738-8748. | 6.6 | 33 |
| 49 | Visualizing the Secondary Structure of Tubulin: Three-Dimensional Map at 4 Å.... <i>Journal of Structural Biology</i> , 1997, 118, 119-127. | 1.3 | 32 |
| 50 | Plant Transformation by <i>Agrobacterium tumefaciens</i> . <i>Journal of Biological Chemistry</i> , 2007, 282, 3458-3464. | 1.6 | 31 |
| 51 | Correlation between observed crystalline self-assembly of fluorocarbon and hydrocarbon amphiphiles at the air-water interface and calculated lattice energy. Determination of electrostatic properties of the CF ₂ group from a low-temperature x-ray diffraction study of perfluoroglutaramide. <i>Journal of the American Chemical Society</i> , 1992, 114, 9983-9989. | 6.6 | 29 |
| 52 | Hsp40s play complementary roles in the prevention of tau amyloid formation. <i>ELife</i> , 2021, 10, . | 2.8 | 29 |
| 53 | Phosphorus detection in vitrified bacteria by cryo-STEM annular dark-field analysis. <i>Journal of Microscopy</i> , 2015, 260, 227-233. | 0.8 | 28 |
| 54 | Synchrotron X-ray study of the structure of a Langmuir monolayer and the attached solute molecular layer. <i>Thin Solid Films</i> , 1988, 159, 29-41. | 0.8 | 26 |

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|----|--|------|-----------|
| 55 | Design and surface synchrotron X-ray structure analysis of Langmuir films for crystal nucleation. <i>Pure and Applied Chemistry</i> , 1989, 61, 673-684. | 0.9 | 26 |
| 56 | Interpreting a Medium-resolution Model of Tubulin: Comparison of Zinc-sheet and Microtubule Structure. <i>Journal of Molecular Biology</i> , 1996, 262, 485-501. | 2.0 | 25 |
| 57 | CryoSTEM tomography in biology. <i>Methods in Cell Biology</i> , 2019, 152, 197-215. | 0.5 | 21 |
| 58 | E. coli Multidrug Transporter MdfA Is a Monomer. <i>Biochemistry</i> , 2007, 46, 5200-5208. | 1.2 | 20 |
| 59 | Three-dimensional deconvolution processing for STEM cryotomography. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 27374-27380. | 3.3 | 20 |
| 60 | Specimen flatness of glucose-embedded biological materials for electron crystallography is affected significantly by the choice of carbon evaporation stock. <i>Ultramicroscopy</i> , 1994, 55, 1-5. | 0.8 | 19 |
| 61 | 3D mapping of native extracellular matrix reveals cellular responses to the microenvironment. <i>Journal of Structural Biology: X</i> , 2019, 1, 100002. | 0.7 | 19 |
| 62 | Iron-catalysed ring-opening metathesis polymerization of olefins and mechanistic studies. <i>Nature Catalysis</i> , 2022, 5, 494-502. | 16.1 | 19 |
| 63 | Exploring cargo transport mechanics in the type IV secretion systems. <i>Trends in Microbiology</i> , 2005, 13, 295-298. | 3.5 | 18 |
| 64 | Cryo-scanning transmission electron tomography of biological cells. <i>MRS Bulletin</i> , 2016, 41, 542-548. | 1.7 | 18 |
| 65 | Structural evidence for extracellular silica formation by diatoms. <i>Nature Communications</i> , 2021, 12, 4639. | 5.8 | 18 |
| 66 | Kinesin does not support the motility of zinc-microtubules. <i>Cytoskeleton</i> , 1995, 30, 146-152. | 4.4 | 16 |
| 67 | Toward Compositional Contrast by Cryo-STEM. <i>Accounts of Chemical Research</i> , 2021, 54, 3621-3631. | 7.6 | 16 |
| 68 | Crystals of Benzamide, the First Polymorphous Molecular Compound, Are Helicoidal. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 14593-14601. | 7.2 | 15 |
| 69 | Cryo-STEM Tomography of Intact Vitrified Fibroblasts. <i>AIMS Biophysics</i> , 2015, 2, 259-273. | 0.3 | 14 |
| 70 | Amalgam, an axon guidance Drosophila adhesion protein belonging to the immunoglobulin superfamily: Over-expression, purification and biophysical characterization. <i>Protein Expression and Purification</i> , 2009, 63, 147-157. | 0.6 | 13 |
| 71 | Setting the Environmental Conditions for Controlling Gold Nanoparticle Assemblies. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 7142-7145. | 7.2 | 11 |
| 72 | Crystals of Benzamide, the First Polymorphous Molecular Compound, Are Helicoidal. <i>Angewandte Chemie</i> , 2020, 132, 14701-14709. | 1.6 | 9 |

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|----|---|-----|-----------|
| 73 | Use of "Tailor-Made" Additives for the Study of Disorder in Crystals. Application to the Racemic Compound of Valine. <i>Molecular Crystals and Liquid Crystals Incorporating Nonlinear Optics</i> , 1990, 186, 3-17. | 0.3 | 8 |
| 74 | Variable Internal Flexibility Characterizes the Helical Capsid Formed by <i>Agrobacterium</i> VirE2 Protein on Single-Stranded DNA. <i>Structure</i> , 2013, 21, 1158-1167. | 1.6 | 8 |
| 75 | The effect of purification method on the completeness of the immature HIV-1 Gag shell. <i>Journal of Virological Methods</i> , 2010, 169, 244-247. | 1.0 | 7 |
| 76 | Bright-field electron tomography of individual inorganic fullerene-like structures. <i>Nanoscale</i> , 2010, 2, 423-428. | 2.8 | 7 |
| 77 | Membrane curvature and cholesterol effects on lipids packing and spin-labelled lipids conformational distributions. <i>Molecular Physics</i> , 2013, 111, 2887-2896. | 0.8 | 6 |
| 78 | Amorphous Solid Phase Deposition of Ions and Phosphate within Eukaryotic Mitochondrial Matrices - Imaging and Characterization by CryoSTEM Tomography and Energy- Dispersive X-ray Spectroscopy. <i>Microscopy and Microanalysis</i> , 2017, 23, 1252-1253. | 0.2 | 0 |
| 79 | Elemental Analysis and Cryo-STEM Tomography of Vitrified Cells. <i>Microscopy and Microanalysis</i> , 2019, 25, 1084-1085. | 0.2 | 0 |
| 80 | Taking the Road Less Travelled " the Downing Legacy. <i>Microscopy and Microanalysis</i> , 2019, 25, 1350-1351. | 0.2 | 0 |
| 81 | Maintaining Context in Ice: Cryo-EM/ET Workflow Optimizations. <i>Structure</i> , 2020, 28, 1179-1181. | 1.6 | 0 |