

Roman I Koning

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

4,050
citations

136885

32
h-index

149623

56
g-index

62
all docs

62
docs citations

62
times ranked

7052
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Complement Is Activated by IgG Hexamers Assembled at the Cell Surface. <i>Science</i> , 2014, 343, 1260-1263. | 6.0 | 602 |
| 2 | A molecular pore spans the double membrane of the coronavirus replication organelle. <i>Science</i> , 2020, 369, 1395-1398. | 6.0 | 372 |
| 3 | The antimicrobial peptide SAAP-148 combats drug-resistant bacteria and biofilms. <i>Science Translational Medicine</i> , 2018, 10, . | 5.8 | 358 |
| 4 | Cryo-electron microscopy of extracellular vesicles in fresh plasma. <i>Journal of Extracellular Vesicles</i> , 2013, 2, . | 5.5 | 198 |
| 5 | Shape and Release Control of a Peptide Decorated Vesicle through pH Sensitive Orthogonal Supramolecular Interactions. <i>Journal of the American Chemical Society</i> , 2009, 131, 13186-13187. | 6.6 | 158 |
| 6 | Structures of C1-IgG1 provide insights into how danger pattern recognition activates complement. <i>Science</i> , 2018, 359, 794-797. | 6.0 | 127 |
| 7 | Structure of the E. coli signal recognition particle bound to a translating ribosome. <i>Nature</i> , 2006, 444, 503-506. | 13.7 | 126 |
| 8 | Tools for correlative cryo-fluorescence microscopy and cryo-electron tomography applied to whole mitochondria in human endothelial cells. <i>European Journal of Cell Biology</i> , 2009, 88, 669-684. | 1.6 | 125 |
| 9 | A role for seipin in lipid droplet dynamics and inheritance in yeast. <i>Journal of Cell Science</i> , 2011, 124, 3894-3904. | 1.2 | 121 |
| 10 | Asymmetric cryo-EM reconstruction of phage MS2 reveals genome structure in situ. <i>Nature Communications</i> , 2016, 7, 12524. | 5.8 | 114 |
| 11 | Intradermal vaccination with hollow microneedles: A comparative study of various protein antigen and adjuvant encapsulated nanoparticles. <i>Journal of Controlled Release</i> , 2017, 266, 109-118. | 4.8 | 110 |
| 12 | Cryoelectron Tomography of the NAIP5/NLRC4 Inflammasome: Implications for NLR Activation. <i>Structure</i> , 2015, 23, 2349-2357. | 1.6 | 104 |
| 13 | CsuA/BABCDE-dependent pili are not involved in the adherence of <i>Acinetobacter baumannii</i> ATCC19606T to human airway epithelial cells and their inflammatory response. <i>Research in Microbiology</i> , 2009, 160, 213-218. | 1.0 | 99 |
| 14 | Deubiquitinase Activity Profiling Identifies UCHL1 as a Candidate Oncoprotein That Promotes TGF β ² -Induced Breast Cancer Metastasis. <i>Clinical Cancer Research</i> , 2020, 26, 1460-1473. | 3.2 | 92 |
| 15 | Cryo-electron tomography in biology and medicine. <i>Annals of Anatomy</i> , 2009, 191, 427-445. | 1.0 | 81 |
| 16 | Advances in cryo-electron tomography for biology and medicine. <i>Annals of Anatomy</i> , 2018, 217, 82-96. | 1.0 | 80 |
| 17 | Insights into complement convertase formation based on the structure of the factor B-cobra venom factor complex. <i>EMBO Journal</i> , 2009, 28, 2469-2478. | 3.5 | 61 |
| 18 | Cryo electron tomography of vitrified fibroblasts: Microtubule plus ends in situ. <i>Journal of Structural Biology</i> , 2008, 161, 459-468. | 1.3 | 58 |

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|----|--|-----|-----------|
| 19 | USP32 regulates late endosomal transport and recycling through deubiquitylation of Rab7. <i>Nature Communications</i> , 2019, 10, 1454. | 5.8 | 58 |
| 20 | Multidimensional View of the Bacterial Cytoskeleton. <i>Journal of Bacteriology</i> , 2013, 195, 1627-1636. | 1.0 | 57 |
| 21 | Pushing the resolution limits in cryo electron tomography of biological structures. <i>Journal of Microscopy</i> , 2012, 248, 1-5. | 0.8 | 54 |
| 22 | WNT3a and WNT5a Transported by Exosomes Activate WNT Signaling Pathways in Human Cardiac Fibroblasts. <i>International Journal of Molecular Sciences</i> , 2019, 20, 1436. | 1.8 | 54 |
| 23 | The Cell Envelope Structure of Cable Bacteria. <i>Frontiers in Microbiology</i> , 2018, 9, 3044. | 1.5 | 53 |
| 24 | Visualization by Cryo-electron Microscopy of Genomic RNA that Binds to the Protein Capsid Inside Bacteriophage MS2. <i>Journal of Molecular Biology</i> , 2003, 332, 415-422. | 2.0 | 52 |
| 25 | Cross-membranes orchestrate compartmentalization and morphogenesis in <i>Streptomyces</i> . <i>Nature Communications</i> , 2016, 7, ncomms11836. | 5.8 | 49 |
| 26 | The 5Å projection structure of the transmembrane domain of the mannitol transporter enzyme II. <i>Journal of Molecular Biology</i> , 1999, 287, 845-851. | 2.0 | 45 |
| 27 | Structure of AP205 Coat Protein Reveals Circular Permutation in ssRNA Bacteriophages. <i>Journal of Molecular Biology</i> , 2016, 428, 4267-4279. | 2.0 | 45 |
| 28 | Molecular mechanism of DRP1 assembly studied in vitro by cryo-electron microscopy. <i>PLoS ONE</i> , 2017, 12, e0179397. | 1.1 | 44 |
| 29 | Cryo Electron Microscopy Reconstructions of the Leviviridae Unveil the Densest Icosahedral RNA Packing Possible. <i>Journal of Molecular Biology</i> , 2006, 363, 858-865. | 2.0 | 42 |
| 30 | DC-SIGN mediated internalisation of glycosylated extracellular vesicles from <i>Schistosoma mansoni</i> increases activation of monocyte-derived dendritic cells. <i>Journal of Extracellular Vesicles</i> , 2020, 9, 1753420. | 5.5 | 41 |
| 31 | Cryo-electron tomography analysis of membrane vesicles from <i>Acinetobacter baumannii</i> ATCC19606T. <i>Research in Microbiology</i> , 2013, 164, 397-405. | 1.0 | 39 |
| 32 | Recycling of Aborted Ribosomal 50S Subunit-Nascent Chain-tRNA Complexes by the Heat Shock Protein Hsp15. <i>Journal of Molecular Biology</i> , 2009, 386, 1357-1367. | 2.0 | 38 |
| 33 | Structural characterization of β -lactalbumin nanotubes. <i>Soft Matter</i> , 2009, 5, 2020. | 1.2 | 38 |
| 34 | Multiple capsid-stabilizing interactions revealed in a high-resolution structure of an emerging picornavirus causing neonatal sepsis. <i>Nature Communications</i> , 2016, 7, 11387. | 5.8 | 34 |
| 35 | Ruthenium Polypyridyl Complexes Hopping at Anionic Lipid Bilayers through a Supramolecular Bond Sensitive to Visible Light. <i>Chemistry - A European Journal</i> , 2012, 18, 10271-10280. | 1.7 | 33 |
| 36 | Correlative Cryo-Fluorescence Light Microscopy and Cryo-Electron Tomography of <i>Streptomyces</i> . <i>Methods in Cell Biology</i> , 2014, 124, 217-239. | 0.5 | 31 |

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|----|---|------|-----------|
| 37 | Subcompartmentalization by cross-membranes during early growth of <i>Streptomyces</i> hyphae. <i>Nature Communications</i> , 2016, 7, 12467. | 5.8 | 31 |
| 38 | Enhanced, Sialoadhesin-Dependent Uptake of Guillain-Barré Syndrome-Associated <i>Campylobacter jejuni</i> Strains by Human Macrophages. <i>Infection and Immunity</i> , 2013, 81, 2095-2103. | 1.0 | 28 |
| 39 | Graphene Liquid Cells Assembled through Loop-Assisted Transfer Method and Located with Correlated Light-Electron Microscopy. <i>Advanced Functional Materials</i> , 2020, 30, 1904468. | 7.8 | 24 |
| 40 | Restricted immune activation and internalisation of anti-idiotypic complexes between drug and antidrug antibodies. <i>Annals of the Rheumatic Diseases</i> , 2018, 77, 1471-1479. | 0.5 | 23 |
| 41 | Intracellular Dynamic Assembly of Deep-Red Emitting Supramolecular Nanostructures Based on the Pt Pt Metallophilic Interaction. <i>Advanced Materials</i> , 2021, 33, e2008613. | 11.1 | 17 |
| 42 | MAVIS: An integrated system for live microscopy and vitrification. <i>Ultramicroscopy</i> , 2014, 143, 67-76. | 0.8 | 15 |
| 43 | Preparation of flat carbon support films. <i>Ultramicroscopy</i> , 2003, 94, 183-191. | 0.8 | 14 |
| 44 | Automated vitrification of cryo-EM samples with controllable sample thickness using suction and real-time optical inspection. <i>Nature Communications</i> , 2022, 13, . | 5.8 | 14 |
| 45 | High-impact <i>FN1</i> mutation decreases chondrogenic potential and affects cartilage deposition via decreased binding to collagen type II. <i>Science Advances</i> , 2021, 7, eabg8583. | 4.7 | 13 |
| 46 | Correlative microscopy for structural microbiology. <i>Current Opinion in Microbiology</i> , 2018, 43, 132-138. | 2.3 | 11 |
| 47 | Target highlights from the first post-PSI CASP experiment (CASP12, May-August 2016). <i>Proteins: Structure, Function and Bioinformatics</i> , 2018, 86, 27-50. | 1.5 | 11 |
| 48 | Extracellular Vesicles from M1-Polarized Macrophages Combined with Hyaluronic Acid and a β -Blocker Potentiate Doxorubicin's Antitumor Activity by Downregulating Tumor-Associated Macrophages in Breast Cancer. <i>Pharmaceutics</i> , 2022, 14, 1068. | 2.0 | 11 |
| 49 | Cellular Nanoimaging by Cryo Electron Tomography. <i>Methods in Molecular Biology</i> , 2013, 950, 227-251. | 0.4 | 9 |
| 50 | Cryo-Electron Tomography of Cellular Microtubules. <i>Methods in Cell Biology</i> , 2010, 97, 455-473. | 0.5 | 7 |
| 51 | Mechanism of formation of multilayered 2D crystals of the Enzyme IIC-mannitol transporter. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2004, 1663, 108-116. | 1.4 | 6 |
| 52 | Optimized Protocol for the Isolation of Extracellular Vesicles from the Parasitic Worm <i>Schistosoma mansoni</i> with Improved Purity, Concentration, and Yield. <i>Journal of Immunology Research</i> , 2022, 2022, 1-11. | 0.9 | 4 |
| 53 | Preliminary Three-Dimensional Model of Insect Lipoprotein HDLp by Using Electron Microscopy and X-ray Crystallography. <i>Microscopy and Microanalysis</i> , 2004, 10, 1514-1515. | 0.2 | 3 |
| 54 | Single-Walled Carbon Nanotubes as Scaffolds to Concentrate DNA for the Study of DNA-Protein Interactions. <i>ChemPhysChem</i> , 2012, 13, 1569-1575. | 1.0 | 3 |

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|----|--|-----|-----------|
| 55 | Nanofabrication of a gold fiducial array on specimen support for electron tomography. Ultramicroscopy, 2013, 135, 99-104. | 0.8 | 2 |
| 56 | Characterisation of the size and swelling kinetics of copolymer nano-spheres extracted from an emulsion. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 535, 265-273. | 2.3 | 1 |
| 57 | Zooming in on Cell Architecture and Molecular Structures with Correlative Light and Electron Microscopy. Microscopy and Microanalysis, 2018, 24, 874-875. | 0.2 | 0 |
| 58 | Automated Cryo-plunging Robot to Prepare Samples for Single Particle Analysis (SPA), Cryo-EM, Cryo-ET, Cryo-fluorescence and Cryo-CLEM. Microscopy and Microanalysis, 2020, 26, 2732-2733. | 0.2 | 0 |