# Spyridoula Karamanou

List of Publications by Year
in descending order



| 59 | 2,818 | 218592 | 182361 |
|---|---|---|---|
| papers | citations | 26 h-index | 51 g-index |

| 65 | 65 | 65 | 2448 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Structural Basis for Signal-Sequence Recognition by the Translocase Motor SecA as Determined by NMR. Cell, 2007, 131, 756-769. | 13.5 | 381 |
| 2 | Protein export through the bacterial Sec pathway. Nature Reviews Microbiology, 2017, 15, 21-36. | 13.6 | 332 |
| 3 | Bacterial protein secretion through the translocase nanomachine. Nature Reviews Microbiology, 2007, 5, 839-851. | 13.6 | 210 |
| 4 | Signal peptides are allosteric activators of the protein translocase. Nature, 2009, 462, 363-367. | 13.7 | 125 |
| 5 | A molecular switch in SecA protein couples ATP hydrolysis to protein translocation. Molecular Microbiology, 1999, 34, 1133-1145. | 1.2 | 124 |
| 6 | The Escherichia coli Peripheral Inner Membrane Proteome. Molecular and Cellular Proteomics, 2013, 12, 599-610. | 2.5 | 79 |
| 7 | Identification of the Preprotein Binding Domain of SecA. Journal of Biological Chemistry, 2005, 280, 43209-43217. | 1.6 | 76 |
| 8 | SecA-mediated targeting and translocation of secretory proteins. Biochimica Et Biophysica Acta - Molecular Cell Research, 2014, 1843, 1466-1474. | 1.9 | 76 |
| 9 | QSR1, an Essential Yeast Gene with a Genetic Relationship to a Subunit of the Mitochondrial Cytochromebc 1 Complex, Codes for a 60 S Ribosomal Subunit Protein. Journal of Biological Chemistry, 1997, 272, 13372-13379. | 1.6 | 75 |
| 10 | Protein folding in the cell envelope of Escherichia coli. Nature Microbiology, 2016, 1, 16107. | 5.9 | 75 |
| 11 | Disorder-order folding transitions underlie catalysis in the helicase motor of SecA. Nature Structural and Molecular Biology, 2006, 13, 594-602. | 3.6 | 73 |
| 12 | Preprotein mature domains contain translocase targeting signals that are essential for secretion. Journal of Cell Biology, 2017, 216, 1357-1369. | 2.3 | 67 |
| 13 | Breaking on through to the other side: protein export through the bacterial Sec system. Biochemical Journal, 2013, 449, 25-37. | 1.7 | 64 |
| 14 | Type III Protein Translocase. Journal of Biological Chemistry, 2003, 278, 25816-25824. | 1.6 | 61 |
| 15 | Preprotein-controlled catalysis in the helicase motor of SecA. EMBO Journal, 2007, 26, 2904-2914. | 3.5 | 56 |
| 16 | Functional large-scale production of a novel Jonesia sp. xyloglucanase by heterologous secretion from Streptomyces lividans. Journal of Biotechnology, 2006, 121, 498-507. | 1.9 | 54 |
| 17 | Hierarchical protein targeting and secretion is controlled by an affinity switch in the type <scp>III</scp> secretion system of enteropathogenic Escherichia coli. EMBO Journal, 2017, 36, 3517-3531. | 3.5 | 54 |
| 18 | Quaternary Dynamics of the SecA Motor Drive Translocase Catalysis. Molecular Cell, 2013, 52, 655-666. | 4.5 | 51 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Allosteric Communication between Signal Peptides and the SecA Protein DEAD Motor ATPase Domain. Journal of Biological Chemistry, 2002, 277, 13724-13731. | 1.6 | 49 |
| 20 | Global Co-ordination of Protein Translocation by the SecA IRA1 Switch. Journal of Biological Chemistry, 2004, 279, 22490-22497. | 1.6 | 47 |
| 21 | Long-Lived Folding Intermediates Predominate the Targeting-Competent Secretome. Structure, 2018, 26, 695-707.e5. | 1.6 | 44 |
| 22 | Bcl-xL acts as an inhibitor of IP3R channels, thereby antagonizing Ca2+-driven apoptosis. Cell Death and Differentiation, 2022, 29, 788-805. | 5.0 | 41 |
| 23 | Large-scale production of a thermostable Rhodothermus marinus cellulase by heterologous secretion from Streptomyces lividans. Microbial Cell Factories, 2017, 16, 232. | 1.9 | 40 |
| 24 | Escherichia coliSecA truncated at its termini is functional and dimeric. FEBS Letters, 2005, 579, 1267-1271. | 1.3 | 39 |
| 25 | RPL29 codes for a non-essential protein of the 60S ribosomal subunit in Saccharomyces cerevisiae and exhibits synthetic lethality with mutations in genes for proteins required for subunit coupling. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 2002, 1574, 255-261. | 2.4 | 34 |
| 26 | Protein Transport Across the Bacterial Plasma Membrane by the Sec Pathway. Protein Journal, 2019, 38, 262-273. | 0.7 | 30 |
| 27 | Trigger factor is a bona fide secretory pathway chaperone that interacts with SecB and the translocase. EMBO Reports, 2020, 21, e49054. | 2.0 | 30 |
| 28 | Multi-Omics and Targeted Approaches to Determine the Role of Cellular Proteases in Streptomyces Protein Secretion. Frontiers in Microbiology, 2018, 9, 1174. | 1.5 | 29 |
| 29 | Preprotein Conformational Dynamics Drive Bivalent Translocase Docking and Secretion. Structure, 2017, 25, 1056-1067.e6. | 1.6 | 28 |
| 30 | Assembly of the translocase motor onto the preproteinâ€conducting channel. Molecular Microbiology, 2008, 70, 311-322. | 1.2 | 26 |
| 31 | Structural Basis of the Subcellular Topology Landscape of Escherichia coli. Frontiers in Microbiology, 2019, 10, 1670. | 1.5 | 25 |
| 32 | Helicase Motif III in SecA is essential for coupling preprotein binding to translocation ATPase. EMBO Reports, 2004, 5, 807-811. | 2.0 | 24 |
| 33 | Rapid labelâ€free quantitative analysis of the E. coli BL21(DE3) inner membrane proteome. Proteomics, 2016, 16, 85-97. | 1.3 | 24 |
| 34 | Streptomyces protein secretion and its application in biotechnology. FEMS Microbiology Letters, 2018, 365, . | 0.7 | 22 |
| 35 | In Vitro Assays to Analyze Translocation of the Model Secretory Preprotein Alkaline Phosphatase. Methods in Molecular Biology, 2010, 619, 157-172. | 0.4 | 22 |
| 36 | Comprehensive subcellular topologies of polypeptides in Streptomyces. Microbial Cell Factories, 2018, 17, 43. | 1.9 | 19 |

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|---|---|---|---|
| 37 | Transcriptomic and fluxomic changes in Streptomyces lividans producing heterologous protein. Microbial Cell Factories, 2018, 17, 198. | 1.9 | 18 |
| 38 | A nexus of intrinsic dynamics underlies translocase priming. Structure, 2021, 29, 846-858.e7. | 1.6 | 17 |
| 39 | A double point mutation at residues Ile14 and Val15 of Bclâ€2 uncovers a role for the BH4 domain in both protein stability and function. FEBS Journal, 2018, 285, 127-145. | 2.2 | 16 |
| 40 | Probing Universal Protein Dynamics Using Hydrogenâ€“Deuterium Exchange Mass Spectrometry-Derived Residue-Level Gibbs Free Energy. Analytical Chemistry, 2021, 93, 12840-12847. | 3.2 | 16 |
| 41 | BDA-366, a putative Bcl-2 BH4 domain antagonist, induces apoptosis independently of Bcl-2 in a variety of cancer cell models. Cell Death and Disease, 2020, 11, 769. | 2.7 | 15 |
| 42 | Inner Membrane Translocases and Insertases. Sub-Cellular Biochemistry, 2019, 92, 337-366. | 1.0 | 14 |
| 43 | The Preprotein Binding Domain of SecA Displays Intrinsic Rotational Dynamics. Structure, 2019, 27, 90-101.e6. | 1.6 | 12 |
| 44 | Secretome Dynamics in a Gram-Positive Bacterial Model. Molecular and Cellular Proteomics, 2019, 18, 423-436. | 2.5 | 12 |
| 45 | A polysulfobetaine hydrogel for immobilization of a glucose-binding protein. RSC Advances, 2016, 6, 83890-83900. | 1.7 | 11 |
| 46 | Monitoring Protein Secretion in Streptomyces Using Fluorescent Proteins. Frontiers in Microbiology, 2018, 9, 3019. | 1.5 | 11 |
| 47 | Cloning, purification and characterization of a functional anthracycline glycosyltransferase. Journal of Biotechnology, 2006, 125, 425-433. | 1.9 | 10 |
| 48 | Identification of influenza PA-Nter endonuclease inhibitors using pharmacophore- and docking-based virtual screening. Bioorganic and Medicinal Chemistry, 2018, 26, 4544-4550. | 1.4 | 9 |
| 49 | Structural dynamics in the evolution of a bilobed protein scaffold. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, . | 3.3 | 9 |
| 50 | Structural Dynamics of the Functional Nonameric Type III Translocase Export Gate. Journal of Molecular Biology, 2021, 433, 167188. | 2.0 | 7 |
| 51 | Purification of a functional mature region from a SecA-dependent preprotein. Protein Expression and Purification, 2005, 40, 336-339. | 0.6 | 6 |
| 52 | Optimization of type 3 protein secretion in enteropathogenic Escherichia coli. FEMS Microbiology Letters, 2018, 365, . | 0.7 | 5 |
| 53 | Preproteins couple the intrinsic dynamics of SecA to its ATPase cycle to translocate via a catch and release mechanism. Cell Reports, 2022, 38, 110346. | 2.9 | 5 |
| 54 | The P. CÃ‰ZANNE Project: Innovative Approaches to Continuous Glucose Monitoring. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 6061-4. | 0.5 | 4 |

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|---|---|---|---|
| 55 | Quantitative analysis of energy transfer between fluorescent proteins in CFPâ€“GBPâ€“YFP and its response to Ca2+. Physical Chemistry Chemical Physics, 2011, 13, 17852. | 1.3 | 3 |
| 56 | A Reporter System for Fast Quantitative Monitoring of Type 3 Protein Secretion in Enteropathogenic E. coli. Microorganisms, 2020, 8, 1786. | 1.6 | 3 |
| 57 | Effective Small Molecule Antibacterials from a Novel Anti-Protein Secretion Screen. Microorganisms, 2021, 9, 592. | 1.6 | 1 |
| 58 | Allosteric cross-talk between the hydrophobic cleft and the BH4 domain of Bcl-2 in control of inositol 1,4,5-trisphosphate receptor activity. Exploration of Targeted Anti-tumor Therapy, 0, , 375-391. | 0.5 | 1 |
| 59 | Editorial: Thematic issue on bacterial protein export: from fundamentals to applications. FEMS Microbiology Letters, 2018, 365, . | 0.7 | 0 |