

# Thomas J Silhavy

## List of Publications by Citations

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202  
papers

18,214  
citations

77  
h-index

130  
g-index

257  
ext. papers

20,504  
ext. citations

9.8  
avg, IF

7.3  
L-index

#	Paper	IF	Citations
202	The bacterial cell envelope. <i>Cold Spring Harbor Perspectives in Biology</i> , <b>2010</b> , 2, a000414	10.2	1674
201	Identification of a multicomponent complex required for outer membrane biogenesis in <i>Escherichia coli</i> . <i>Cell</i> , <b>2005</b> , 121, 235-45	56.2	565
200	Suppressor mutations that restore export of a protein with a defective signal sequence. <i>Cell</i> , <b>1981</b> , 23, 79-88	56.2	388
199	Advances in understanding bacterial outer-membrane biogenesis. <i>Nature Reviews Microbiology</i> , <b>2006</b> , 4, 57-66	22.2	353
198	Defining the roles of the periplasmic chaperones SurA, Skp, and DegP in <i>Escherichia coli</i> . <i>Genes and Development</i> , <b>2007</b> , 21, 2473-84	12.6	336
197	Surface sensing and adhesion of <i>Escherichia coli</i> controlled by the Cpx-signaling pathway. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2002</b> , 99, 2287-92	11.5	320
196	Periplasmic stress and ECF sigma factors. <i>Annual Review of Microbiology</i> , <b>2001</b> , 55, 591-624	17.5	319
195	The ompB locus and the regulation of the major outer membrane porin proteins of <i>Escherichia coli</i> K12. <i>Journal of Molecular Biology</i> , <b>1981</b> , 146, 23-43	6.5	304
194	Structure and function of an essential component of the outer membrane protein assembly machine. <i>Science</i> , <b>2007</b> , 317, 961-4	33.3	302
193	Genetic analysis of the ompB locus in <i>Escherichia coli</i> K-12. <i>Journal of Molecular Biology</i> , <b>1981</b> , 151, 1-15	6.5	289
192	An ABC transport system that maintains lipid asymmetry in the gram-negative outer membrane. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 8009-14	11.5	287
191	Identification of a protein complex that assembles lipopolysaccharide in the outer membrane of <i>Escherichia coli</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 11754-9	11.5	267
190	The <i>E. coli</i> ffh gene is necessary for viability and efficient protein export. <i>Nature</i> , <b>1992</b> , 359, 744-6	50.4	259
189	From acids to osmZ: multiple factors influence synthesis of the OmpF and OmpC porins in <i>Escherichia coli</i> . <i>Molecular Microbiology</i> , <b>1996</b> , 20, 911-7	4.1	258
188	Sensing external stress: watchdogs of the <i>Escherichia coli</i> cell envelope. <i>Current Opinion in Microbiology</i> , <b>2005</b> , 8, 122-6	7.9	257
187	β-Barrel membrane protein assembly by the Bam complex. <i>Annual Review of Biochemistry</i> , <b>2011</b> , 80, 189-210	19.1	254
186	Lipoprotein SmpA is a component of the YaeT complex that assembles outer membrane proteins in <i>Escherichia coli</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 6400-5	11.5	240

185	Chemical conditionality: a genetic strategy to probe organelle assembly. <i>Cell</i> , <b>2005</b> , 121, 307-17	56.2	238
184	YfiO stabilizes the YaeT complex and is essential for outer membrane protein assembly in <i>Escherichia coli</i> . <i>Molecular Microbiology</i> , <b>2006</b> , 61, 151-64	4.1	234
183	CpxP, a stress-combative member of the Cpx regulon. <i>Journal of Bacteriology</i> , <b>1998</b> , 180, 831-9	3.5	220
182	Lipopolysaccharide transport and assembly at the outer membrane: the PEZ model. <i>Nature Reviews Microbiology</i> , <b>2016</b> , 14, 337-45	22.2	208
181	Transport of lipopolysaccharide across the cell envelope: the long road of discovery. <i>Nature Reviews Microbiology</i> , <b>2009</b> , 7, 677-83	22.2	205
180	Imp/OstA is required for cell envelope biogenesis in <i>Escherichia coli</i> . <i>Molecular Microbiology</i> , <b>2002</b> , 45, 1289-302	4.1	200
179	Genetic evidence for parallel pathways of chaperone activity in the periplasm of <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , <b>2001</b> , 183, 6794-800	3.5	200
178	Sequence analysis of mutations that prevent export of lambda receptor, an <i>Escherichia coli</i> outer membrane protein. <i>Nature</i> , <b>1980</b> , 285, 82-5	50.4	195
177	Targeting and assembly of periplasmic and outer-membrane proteins in <i>Escherichia coli</i> . <i>Annual Review of Genetics</i> , <b>1998</b> , 32, 59-94	14.5	194
176	The Cpx envelope stress response is controlled by amplification and feedback inhibition. <i>Journal of Bacteriology</i> , <b>1999</b> , 181, 5263-72	3.5	184
175	Identification of two inner-membrane proteins required for the transport of lipopolysaccharide to the outer membrane of <i>Escherichia coli</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 5537-42	11.5	183
174	Functional analysis of the protein machinery required for transport of lipopolysaccharide to the outer membrane of <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , <b>2008</b> , 190, 4460-9	3.5	181
173	Heat-shock proteins DnaK and GroEL facilitate export of LacZ hybrid proteins in <i>E. coli</i> . <i>Nature</i> , <b>1990</b> , 344, 882-4	50.4	179
172	The sec and prl genes of <i>Escherichia coli</i> . <i>Journal of Bioenergetics and Biomembranes</i> , <b>1990</b> , 22, 291-310	3.7	172
171	Signal detection and target gene induction by the CpxRA two-component system. <i>Journal of Bacteriology</i> , <b>2003</b> , 185, 2432-40	3.5	169
170	EnvZ controls the concentration of phosphorylated OmpR to mediate osmoregulation of the porin genes. <i>Journal of Molecular Biology</i> , <b>1991</b> , 222, 567-80	6.5	164
169	The sigmaE and Cpx regulatory pathways: overlapping but distinct envelope stress responses. <i>Current Opinion in Microbiology</i> , <b>1999</b> , 2, 159-65	7.9	159
168	A signal sequence is not sufficient to lead beta-galactosidase out of the cytoplasm. <i>Nature</i> , <b>1980</b> , 286, 356-9	50.4	157

167	Two-Component Signal Transduction Systems: Structure-Function Relationships and Mechanisms of Catalysis <b>2014</b> , 25-51		155
166	Characterization of the two-protein complex in Escherichia coli responsible for lipopolysaccharide assembly at the outer membrane. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 5363-8	11.5	152
165	Mutations affecting localization of an Escherichia coli outer membrane protein, the bacteriophage lambda receptor. <i>Journal of Molecular Biology</i> , <b>1980</b> , 141, 63-90	6.5	148
164	Contact-dependent growth inhibition requires the essential outer membrane protein BamA (YaeT) as the receptor and the inner membrane transport protein AcrB. <i>Molecular Microbiology</i> , <b>2008</b> , 70, 323-40 <sup>1</sup>	4.1	145
163	Outer Membrane Biogenesis. <i>Annual Review of Microbiology</i> , <b>2017</b> , 71, 539-556	17.5	142
162	The Bam machine: a molecular cooper. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2012</b> , 1818, 1067-84 <sup>8</sup>	3.8	136
161	Quality control in the bacterial periplasm. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , <b>2004</b> , 1694, 121-34	4.9	134
160	PrlA (SecY) and PrlG (SecE) interact directly and function sequentially during protein translocation in E. coli. <i>Cell</i> , <b>1990</b> , 61, 833-42	56.2	132
159	Mutations that alter the kinase and phosphatase activities of the two-component sensor EnvZ. <i>Journal of Bacteriology</i> , <b>1998</b> , 180, 4538-46	3.5	126
158	A previously unidentified gene in the spc operon of Escherichia coli K12 specifies a component of the protein export machinery. <i>Cell</i> , <b>1982</b> , 31, 227-35	56.2	122
157	The extracytoplasmic adaptor protein CpxP is degraded with substrate by DegP. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2005</b> , 102, 17775-9	11.5	117
156	Characterization of the role of the Escherichia coli periplasmic chaperone SurA using differential proteomics. <i>Proteomics</i> , <b>2009</b> , 9, 2432-43	4.8	116
155	Genetic basis for activity differences between vancomycin and glycolipid derivatives of vancomycin. <i>Science</i> , <b>2001</b> , 294, 361-4	33.3	112
154	Periplasmic peptidyl prolyl cis-trans isomerases are not essential for viability, but SurA is required for pilus biogenesis in Escherichia coli. <i>Journal of Bacteriology</i> , <b>2005</b> , 187, 7680-6	3.5	111
153	Structure of the malB region in Escherichia coli K12. II. Genetic map of the malE,F,G operon. <i>Molecular Genetics and Genomics</i> , <b>1979</b> , 174, 249-59		109
152	Genetic analysis of the switch that controls porin gene expression in Escherichia coli K-12. <i>Journal of Molecular Biology</i> , <b>1989</b> , 210, 281-92	6.5	104
151	Disruption of lipid homeostasis in the Gram-negative cell envelope activates a novel cell death pathway. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, E1565-74	11.5	97
150	Lipoprotein LptE is required for the assembly of LptD by the beta-barrel assembly machine in the outer membrane of Escherichia coli. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 2492-7	11.5	97

149	Crl stimulates RpoS activity during stationary phase. <i>Molecular Microbiology</i> , <b>1998</b> , 29, 1225-36	4.1	96
148	The essential tension: opposed reactions in bacterial two-component regulatory systems. <i>Trends in Microbiology</i> , <b>1993</b> , 1, 306-10	12.4	95
147	Transmembrane domain of surface-exposed outer membrane lipoprotein RcsF is threaded through the lumen of E-barrel proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, E4350-8	11.5	90
146	The free and bound forms of Lpp occupy distinct subcellular locations in Escherichia coli. <i>Molecular Microbiology</i> , <b>2011</b> , 79, 1168-81	4.1	90
145	Effects of antibiotics and a proto-oncogene homolog on destruction of protein translocator SecY. <i>Science</i> , <b>2009</b> , 325, 753-6	33.3	89
144	Mapping an interface of SecY (PrLA) and SecE (PrLG) by using synthetic phenotypes and in vivo cross-linking. <i>Journal of Bacteriology</i> , <b>1999</b> , 181, 3438-44	3.5	89
143	Sirtuins are evolutionarily conserved viral restriction factors. <i>MBio</i> , <b>2014</b> , 5,	7.8	86
142	Nonconsecutive disulfide bond formation in an essential integral outer membrane protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 12245-50	11.5	86
141	Escherichia coli starvation diets: essential nutrients weigh in distinctly. <i>Journal of Bacteriology</i> , <b>2005</b> , 187, 7549-53	3.5	86
140	Conformation-specific labeling of BamA and suppressor analysis suggest a cyclic mechanism for E-barrel assembly in Escherichia coli. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 5151-6	11.5	85
139	Tethering of CpxP to the inner membrane prevents spheroplast induction of the cpx envelope stress response. <i>Molecular Microbiology</i> , <b>2000</b> , 37, 1186-97	4.1	82
138	Mutational activation of the Cpx signal transduction pathway of Escherichia coli suppresses the toxicity conferred by certain envelope-associated stresses. <i>Molecular Microbiology</i> , <b>1995</b> , 18, 491-505	4.1	82
137	Sequence information within the lamB genes is required for proper routing of the bacteriophage lambda receptor protein to the outer membrane of Escherichia coli K-12. <i>Journal of Molecular Biology</i> , <b>1982</b> , 156, 93-112	6.5	82
136	prfF and yhaV encode a new toxin-antitoxin system in Escherichia coli. <i>Journal of Molecular Biology</i> , <b>2007</b> , 372, 894-905	6.5	81
135	Outer membrane lipoprotein biogenesis: Lol is not the end. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2015</b> , 370,	5.8	80
134	Olaf Schneewind, 1961-2019: Scientist, Mentor, Friend. <i>Journal of Bacteriology</i> , <b>2019</b> , 201,	3.5	78
133	Envelope Stress Responses: An Interconnected Safety Net. <i>Trends in Biochemical Sciences</i> , <b>2017</b> , 42, 232-243	7.8	78
132	2019 Jack Kenney Award for Outstanding Service. <i>Journal of Bacteriology</i> , <b>2019</b> , 202,	3.5	78

131	Current Issues in Scientific Publishing. <i>Journal of Bacteriology</i> , <b>2019</b> , 202,	3.5	78
130	Accumulation of the enterobacterial common antigen lipid II biosynthetic intermediate stimulates degP transcription in Escherichia coli. <i>Journal of Bacteriology</i> , <b>1998</b> , 180, 5875-84	3.5	76
129	Complex spatial distribution and dynamics of an abundant Escherichia coli outer membrane protein, LamB. <i>Molecular Microbiology</i> , <b>2004</b> , 53, 1771-83	4.1	75
128	Information within the mature LamB protein necessary for localization to the outer membrane of E coli K12. <i>Cell</i> , <b>1983</b> , 32, 1325-35	56.2	75
127	Kinetic analysis of the assembly of the outer membrane protein LamB in Escherichia coli mutants each lacking a secretion or targeting factor in a different cellular compartment. <i>Journal of Bacteriology</i> , <b>2007</b> , 189, 446-54	3.5	73
126	The Cpx stress response confers resistance to some, but not all, bactericidal antibiotics. <i>Journal of Bacteriology</i> , <b>2013</b> , 195, 1869-74	3.5	71
125	Envelope stress responses: balancing damage repair and toxicity. <i>Nature Reviews Microbiology</i> , <b>2019</b> , 17, 417-428	22.2	68
124	Activation of the Escherichia coli $\beta$ barrel assembly machine (Bam) is required for essential components to interact properly with substrate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 3487-91	11.5	68
123	The art and design of genetic screens: Escherichia coli. <i>Nature Reviews Genetics</i> , <b>2003</b> , 4, 419-31	30.1	68
122	Mutations that affect separate functions of OmpR the phosphorylated regulator of porin transcription in Escherichia coli. <i>Journal of Molecular Biology</i> , <b>1993</b> , 231, 261-73	6.5	68
121	Starvation for different nutrients in Escherichia coli results in differential modulation of RpoS levels and stability. <i>Journal of Bacteriology</i> , <b>2005</b> , 187, 434-42	3.5	66
120	A small-molecule inhibitor of BamA impervious to efflux and the outer membrane permeability barrier. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 21748-21757	11.5	64
119	Porin Regulon of Escherichia coli105-127		64
118	BamE modulates the Escherichia coli beta-barrel assembly machine component BamA. <i>Journal of Bacteriology</i> , <b>2012</b> , 194, 1002-8	3.5	63
117	Characterization of a stalled complex on the $\beta$ barrel assembly machine. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 8717-22	11.5	62
116	Making a beta-barrel: assembly of outer membrane proteins in Gram-negative bacteria. <i>Current Opinion in Microbiology</i> , <b>2012</b> , 15, 189-93	7.9	61
115	OmpR mutants specifically defective for transcriptional activation. <i>Journal of Molecular Biology</i> , <b>1994</b> , 243, 579-94	6.5	60
114	Redefining the essential trafficking pathway for outer membrane lipoproteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 4769-4774	11.5	59

113	A suppressor of cell death caused by the loss of sigmaE downregulates extracytoplasmic stress responses and outer membrane vesicle production in Escherichia coli. <i>Journal of Bacteriology</i> , <b>2007</b> , 189, 1523-30	3.5	59
112	Secretion of LamB-LacZ by the signal recognition particle pathway of Escherichia coli. <i>Journal of Bacteriology</i> , <b>2003</b> , 185, 5697-705	3.5	59
111	Constitutive activation of the Escherichia coli Pho regulon upregulates rpoS translation in an Hfq-dependent fashion. <i>Journal of Bacteriology</i> , <b>2003</b> , 185, 5984-92	3.5	58
110	A lipoprotein/Barrel complex monitors lipopolysaccharide integrity transducing information across the outer membrane. <i>ELife</i> , <b>2016</b> , 5,	8.9	58
109	Isolation and characterization of mutations altering expression of the major outer membrane porin proteins using the local anaesthetic procaine. <i>Journal of Molecular Biology</i> , <b>1983</b> , 166, 273-82	6.5	57
108	Probing the barrier function of the outer membrane with chemical conditionality. <i>ACS Chemical Biology</i> , <b>2006</b> , 1, 385-95	4.9	55
107	Identification of base pairs important for OmpR-DNA interaction. <i>Molecular Microbiology</i> , <b>1995</b> , 17, 565-73	4.1	53
106	LptE binds to and alters the physical state of LPS to catalyze its assembly at the cell surface. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 9467-72	11.5	52
105	Genetic fusions as experimental tools. <i>Methods in Enzymology</i> , <b>1991</b> , 204, 213-48	1.7	51
104	Engineering Escherichia coli to secrete heterologous gene products. <i>Methods in Enzymology</i> , <b>1990</b> , 185, 166-87	1.7	49
103	The LysR homolog LrhA promotes RpoS degradation by modulating activity of the response regulator sprE. <i>Journal of Bacteriology</i> , <b>1999</b> , 181, 563-71	3.5	48
102	Dissecting the Escherichia coli periplasmic chaperone network using differential proteomics. <i>Proteomics</i> , <b>2012</b> , 12, 1391-401	4.8	46
101	RpoS proteolysis is regulated by a mechanism that does not require the SprE (RssB) response regulator phosphorylation site. <i>Journal of Bacteriology</i> , <b>2004</b> , 186, 7403-10	3.5	45
100	Regulation of Capsule Synthesis: Modification of the Two-Component Paradigm by an Accessory Unstable Regulator		45
99	The response regulator SprE (RssB) is required for maintaining poly(A) polymerase I-degradosome association during stationary phase. <i>Journal of Bacteriology</i> , <b>2010</b> , 192, 3713-21	3.5	44
98	LrhA regulates rpoS translation in response to the Rcs phosphorelay system in Escherichia coli. <i>Journal of Bacteriology</i> , <b>2006</b> , 188, 3175-81	3.5	44
97	Crl facilitates RNA polymerase holoenzyme formation. <i>Journal of Bacteriology</i> , <b>2006</b> , 188, 7966-70	3.5	44
96	Decline in ribosomal fidelity contributes to the accumulation and stabilization of the master stress response regulator sigmaS upon carbon starvation. <i>Genes and Development</i> , <b>2007</b> , 21, 862-74	12.6	44

95	The Phospholipase PldA Regulates Outer Membrane Homeostasis via Lipid Signaling. <i>MBio</i> , <b>2018</b> , 9,	7.8	42
94	Characterization and in vivo cloning of prlC, a suppressor of signal sequence mutations in Escherichia coli K12. <i>Genetics</i> , <b>1987</b> , 116, 513-21	4	42
93	Control of Cellular Development in Sporulating Bacteria by the Phosphorelay Two-Component Signal Transduction System <b>2014</b> , 129-144		41
92	The CpxQ sRNA Negatively Regulates Skp To Prevent Mistargeting of $\beta$ Barrel Outer Membrane Proteins into the Cytoplasmic Membrane. <i>MBio</i> , <b>2016</b> , 7, e00312-16	7.8	40
91	RpoS proteolysis is controlled directly by ATP levels in Escherichia coli. <i>Genes and Development</i> , <b>2012</b> , 26, 548-53	12.6	38
90	Dual Sensors and Dual Response Regulators Interact to Control Nitrate- and Nitrite-Responsive Gene Expression in Escherichia coli 233-252		38
89	Role for Skp in LptD assembly in Escherichia coli. <i>Journal of Bacteriology</i> , <b>2013</b> , 195, 3734-42	3.5	36
88	Substrate binding to BamD triggers a conformational change in BamA to control membrane insertion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 2359-2364	11.5	35
87	Continuous control in bacterial regulatory circuits. <i>Journal of Bacteriology</i> , <b>2004</b> , 186, 7618-25	3.5	34
86	RpoS-dependent transcriptional control of sprE: regulatory feedback loop. <i>Journal of Bacteriology</i> , <b>2001</b> , 183, 5974-81	3.5	34
85	Classifying $\beta$ Barrel Assembly Substrates by Manipulating Essential Bam Complex Members. <i>Journal of Bacteriology</i> , <b>2016</b> , 198, 1984-92	3.5	34
84	P pilus assembly motif necessary for activation of the CpxRA pathway by PapE in Escherichia coli. <i>Journal of Bacteriology</i> , <b>2004</b> , 186, 4326-37	3.5	32
83	Making a membrane on the other side of the wall. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , <b>2017</b> , 1862, 1386-1393	5	31
82	The genetics of protein secretion in E. coli. <i>Trends in Genetics</i> , <b>1990</b> , 6, 329-34	8.5	31
81	Inhibitor of intramembrane protease RseP blocks the $\sigma$ response causing lethal accumulation of unfolded outer membrane proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, E6614-E6621	11.5	31
80	Predicting functionally informative mutations in Escherichia coli BamA using evolutionary covariance analysis. <i>Genetics</i> , <b>2013</b> , 195, 443-55	4	30
79	Ti Plasmid and Chromosomally Encoded Two-Component Systems Important in Plant Cell Transformation by Agrobacterium Species 367-385		30
78	Transcriptional occlusion caused by overlapping promoters. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 1557-61	11.5	29



77	Dominant negative lptE mutation that supports a role for LptE as a plug in the LptD barrel. <i>Journal of Bacteriology</i> , <b>2013</b> , 195, 1327-34	3.5	28
76	Involvement of a tryptophan residue in the binding site of Escherichia coli galactose-binding protein. <i>Biochemistry</i> , <b>1974</b> , 13, 993-9	3.2	28
75	Cyclic Enterobacterial Common Antigen Maintains the Outer Membrane Permeability Barrier of Escherichia coli in a Manner Controlled by YhdP. <i>MBio</i> , <b>2018</b> , 9,	7.8	28
74	Accumulation of phosphatidic acid increases vancomycin resistance in Escherichia coli. <i>Journal of Bacteriology</i> , <b>2014</b> , 196, 3214-20	3.5	27
73	Distinctive Roles for Periplasmic Proteases in the Maintenance of Essential Outer Membrane Protein Assembly. <i>Journal of Bacteriology</i> , <b>2017</b> , 199,	3.5	27
72	YejM Modulates Activity of the YciM/FtsH Protease Complex To Prevent Lethal Accumulation of Lipopolysaccharide. <i>MBio</i> , <b>2020</b> , 11,	7.8	27
71	The Activity of Escherichia coli Chaperone SurA Is Regulated by Conformational Changes Involving a Parvulin Domain. <i>Journal of Bacteriology</i> , <b>2016</b> , 198, 921-9	3.5	25
70	Transposition of lambda placMu is mediated by the A protein altered at its carboxy-terminal end. <i>Gene</i> , <b>1988</b> , 71, 177-86	3.8	24
69	Novel RpoS-Dependent Mechanisms Strengthen the Envelope Permeability Barrier during Stationary Phase. <i>Journal of Bacteriology</i> , <b>2017</b> , 199,	3.5	23
68	PrlC, a suppressor of signal sequence mutations in Escherichia coli, can direct the insertion of the signal sequence into the membrane. <i>Journal of Molecular Biology</i> , <b>1989</b> , 205, 665-76	6.5	23
67	Sirtuin Lipoamidase Activity Is Conserved in Bacteria as a Regulator of Metabolic Enzyme Complexes. <i>MBio</i> , <b>2017</b> , 8,	7.8	22
66	Structural and Functional Conservation in Response Regulators		22
65	The activity and specificity of the outer membrane protein chaperone SurA are modulated by a proline isomerase domain. <i>MBio</i> , <b>2013</b> , 4,	7.8	21
64	His $\Delta$ asp Phosphorelay: Two Components or More?. <i>Cell</i> , <b>1996</b> , 85, 13-14	56.2	21
63	Two-Component Signal Transduction and Its Role in the Expression of Bacterial Virulence Factors		21
62	A Signal Transduction Network in Bacillus subtilis Includes the DegS/DegU and ComP/ComA Two-Component Systems		21
61	Control of Nitrogen Assimilation by the NRI-NRII Two-Component System of Enteric Bacteria		21
60	The Synthetic Phenotype of $\Delta$ Double Mutants Results from a Lethal Jamming of the Bam Complex by the Lipoprotein RcsF. <i>MBio</i> , <b>2019</b> , 10,	7.8	21

59	Genetic Approaches for Signaling Pathways and Proteins <b>2014</b> , 7-23		20
58	Absence of the outer membrane phospholipase A suppresses the temperature-sensitive phenotype of <i>Escherichia coli</i> degP mutants and induces the Cpx and sigma(E) extracytoplasmic stress responses. <i>Journal of Bacteriology</i> , <b>2001</b> , 183, 5230-8	3.5	20
57	Conferral of transposable properties to a chromosomal gene in <i>Escherichia coli</i> . <i>Journal of Molecular Biology</i> , <b>1980</b> , 141, 235-48	6.5	20
56	Flagellar Switch181-199		20
55	Regulation of Salmonella Virulence by Two-Component Regulatory Systems319-332		20
54	<i>Bordetella pertussis</i> BvgAS Virulence Control System <b>2014</b> , 333-349		19
53	Assembly of Outer Membrane $\beta$ Barrel Proteins: the Bam Complex. <i>EcoSal Plus</i> , <b>2011</b> , 4,	7.7	19
52	Gene fusions. <i>Journal of Bacteriology</i> , <b>2000</b> , 182, 5935-8	3.5	19
51	Genetic analysis of protein export in <i>Escherichia coli</i> . <i>Methods in Enzymology</i> , <b>1983</b> , 97, 3-11	1.7	19
50	Transcription Regulation by the <i>Bacillus subtilis</i> Response Regulator Spo0A159-179		19
49	Signal Transduction and Cross Regulation in the <i>Escherichia coli</i> Phosphate Regulon by PhoR, CreC, and Acetyl Phosphate201-221		19
48	Mechanism of Transcriptional Activation by NtrC145-158		18
47	A practical guide to the construction and use of lac fusions in <i>Escherichia coli</i> . <i>Methods in Enzymology</i> , <b>2000</b> , 326, 11-35	1.7	17
46	Gene fusions to the ptsM/pel locus of <i>Escherichia coli</i> . <i>Molecular Genetics and Genomics</i> , <b>1985</b> , 199, 427-33		16
45	Signal Transduction in the Arc System for Control of Operons Encoding Aerobic Respiratory Enzymes223-231		16
44	Expression of the Uhp Sugar-Phosphate Transport System of <i>Escherichia coli</i> 263-274		16
43	Outer Membrane Protein Insertion by the $\beta$ barrel Assembly Machine. <i>EcoSal Plus</i> , <b>2019</b> , 8,	7.7	15
42	Conformational Changes That Coordinate the Activity of BamA and BamD Allowing $\beta$ Barrel Assembly. <i>Journal of Bacteriology</i> , <b>2017</b> , 199,	3.5	15

41	The response regulator SprE (RssB) modulates polyadenylation and mRNA stability in Escherichia coli. <i>Journal of Bacteriology</i> , <b>2009</b> , 191, 6812-21	3.5	15
40	Isolation and characterization of mutants of Escherichia coli K12 affected in protein localization. <i>Methods in Enzymology</i> , <b>1983</b> , 97, 11-40	1.7	15
39	The Porin Regulon: A Paradigm for the Two-Component Regulatory Systems <b>1996</b> , 383-417		15
38	A mutant Escherichia coli that attaches peptidoglycan to lipopolysaccharide and displays cell wall on its surface. <i>ELife</i> , <b>2014</b> , 3, e05334	8.9	14
37	Folding LacZ in the periplasm of Escherichia coli. <i>Journal of Bacteriology</i> , <b>2014</b> , 196, 3343-50	3.5	13
36	lacZ fusions to genes that specify exported proteins: a general technique. <i>Molecular Genetics and Genomics</i> , <b>1984</b> , 194, 388-94		13
35	Genetic studies on mechanisms of protein localization in Escherichia coli K-12. <i>Journal of Supramolecular Structure</i> , <b>1980</b> , 13, 147-63		13
34	Complex Phosphate Regulation by Sequential Switches in Bacillus subtilis 289-302		13
33	Tetracycline Regulation of Conjugal Transfer Genes 393-400		13
32	Chemotactic Signal Transduction in Escherichia coli and Salmonella typhimurium 89-103		13
31	A Suppressor Mutation That Creates a Faster and More Robust $\sigma$ Envelope Stress Response. <i>Journal of Bacteriology</i> , <b>2016</b> , 198, 2345-51	3.5	12
30	The Frz Signal Transduction System Controls Multicellular Behavior in Myxococcus xanthus 419-430		12
29	Border Control: Regulating LPS Biogenesis. <i>Trends in Microbiology</i> , <b>2021</b> , 29, 334-345	12.4	12
28	The "hidden ligand" of the galactose-binding protein. <i>FEBS Journal</i> , <b>1975</b> , 54, 163-7		11
27	The gain-of-function allele bypasses the essential requirement for BamD in $\beta$ barrel outer membrane protein assembly. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 18737-18743	11.5	11
26	Three-Component Regulatory System Controlling Virulence in Vibrio cholerae 351-365		10
25	Intercellular Communication in Marine Vibrio Species: Density-Dependent Regulation of the Expression of Bioluminescence 431-445		9
24	SprE levels are growth phase regulated in a sigma(S)-dependent manner at the level of translation. <i>Journal of Bacteriology</i> , <b>2000</b> , 182, 4117-20	3.5	8

23	The genetics of protein secretion in Escherichia coli. <i>Methods in Cell Biology</i> , <b>1981</b> , 23, 27-38	1.8	8
22	Physical properties of the bacterial outer membrane. <i>Nature Reviews Microbiology</i> , <b>2021</b> ,	22.2	8
21	The inner membrane protein YhdP modulates the rate of anterograde phospholipid flow in. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 26907-26914	11.5	8
20	Null mutations in a Nudix gene, ygdP, implicate an alarmone response in a novel suppression of hybrid jamming. <i>Journal of Bacteriology</i> , <b>2003</b> , 185, 6530-9	3.5	7
19	Signal sequence mutations as tools for the characterization of LamB folding intermediates. <i>Journal of Bacteriology</i> , <b>2002</b> , 184, 6918-28	3.5	7
18	The genetics of protein targeting in Escherichia coli K12. <i>Journal of Cell Science</i> , <b>1989</b> , 11, 13-28	5.3	7
17	Folding-based suppression of extracytoplasmic toxicity conferred by processing-defective LamB. <i>Journal of Bacteriology</i> , <b>1998</b> , 180, 3120-30	3.5	7
16	Functions of the BamBCDE Lipoproteins Revealed by Bypass Mutations in BamA. <i>Journal of Bacteriology</i> , <b>2020</b> , 202,	3.5	7
15	Genetic Analysis of Protein Translocation. <i>Protein Journal</i> , <b>2019</b> , 38, 217-228	3.9	6
14	Selection procedure for mutants defective in the beta-methylgalactoside transport system of Escherichia coli utilizing the compound 2R-glycerol-beta-D-galactopyranoside. <i>Journal of Bacteriology</i> , <b>1974</b> , 120, 424-32	3.5	6
13	Fine-Tuning of $\lambda$ Activation Suppresses Multiple Assembly-Defective Mutations in Escherichia coli. <i>Journal of Bacteriology</i> , <b>2019</b> , 201,	3.5	5
12	Phase separation in the outer membrane of. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	5
11	Germ Warfare: The Mechanisms of Virulence Factor Delivery <b>2001</b> , 43-74		4
10	Synthesis of l-(p-iodobenzenesulfonyl)-3,5-di-n-propyl isocyanurate. <i>Journal of Organic Chemistry</i> , <b>1972</b> , 37, 3357-8	4.2	4
9	Symbiotic Expression of Rhizobium meliloti Nitrogen Fixation Genes Is Regulated by Oxygen <b>275-287</b>		4
8	Protein secretion in bacteria: a chemotherapeutic target? <b>1992</b> , 163-175		4
7	ASM Journals Eliminate Impact Factor Information from Journal Websites. <i>MSphere</i> , <b>2016</b> , 1,	5	3
6	Synthesis and pharmacological activity of 1-(arylsulfonyl)-3,5-dialkyl-s-triazine-2,4,6-(1H,3H,5H)-triones. <i>Journal of Pharmaceutical Sciences</i> , <b>1973</b> , 62, 1379-81	3.9	3

5	Outer Membrane Protein Insertion by the E-barrel Assembly Machine <b>2019</b> , 91-101		3
4	Regulation of Glycopeptide Resistance Genes of Enterococcal Transposon Tn1546 by the VanR-VanS Two-Component Regulatory System 387-391		2
3	The sacrificial adaptor protein Skp functions to remove stalled substrates from the E-barrel assembly machine.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2022</b> , 119,	11.5	2
2	The Identification of the YaeT Complex and Its Role in the Assembly of Bacterial Outer Membrane E-Barrel Proteins. <i>The Enzymes</i> , <b>2007</b> , 129-149	2.3	0
1	2015 Jack Kenney Award for Outstanding Service. <i>Journal of Bacteriology</i> , <b>2016</b> , 198, 4		3.5