Karl-Erich Jaeger

List of Publications by Year
in descending order

245 papers	15,543 citations	20817 60 h-index	22166 113 g-index
263 all docs	263 docs citations	263 times ranked	12021 citing authors

#	Article	IF	Citations
1	Optochemical Control of Bacterial Gene Expression: Novel Photocaged Compounds for Different Promoter Systems. ChemBioChem, 2022, 23, e202100467.	2.6	7
2	Critical assessment of structure-based approaches to improve protein resistance in aqueous ionic liquids by enzyme-wide saturation mutagenesis. Computational and Structural Biotechnology Journal, 2022, 20, 399-409.	4.1	7
3	Polar Substitutions on the Surface of a Lipase Substantially Improve Tolerance in Organic Solvents. ChemSusChem, 2022, 15, .	6.8	17
4	Heterologous Production of Plant Terpenes in the Photosynthetic Bacterium Rhodobacter capsulatus. Methods in Molecular Biology, 2022, 2379, 125-154.	0.9	1
5	How Does Surface Charge Engineering of Bacillus subtilis Lipase A Improve Ionic Liquid Resistance? Lessons Learned from Molecular Dynamics Simulations. ACS Sustainable Chemistry and Engineering, 2022, 10, 2689-2698.	6.7	15
6	Catalytically Active Inclusion Bodiesâ”€Benchmarking and Application in Flow Chemistry. ACS Synthetic Biology, 2022, 11, 1881-1896.	3.8	5
7	Effect of Photocaged Isopropyl Î²â€<scp>d</scp>â€1â€thiogalactopyranoside Solubility on the Light Responsiveness of Laclâ€controlled Expression Systems in Different Bacteria. ChemBioChem, 2021, 22, 539-547.	2.6	9
8	Complex Evolution of Light-Dependent Protochlorophyllide Oxidoreductases in Aerobic Anoxygenic Phototrophs: Origin, Phylogeny, and Function. Molecular Biology and Evolution, 2021, 38, 819-837.	8.9	6
9	CompassR Yields Highly Organicâ€Solventâ€Tolerant Enzymes through Recombination of Compatible Substitutions. Chemistry - A European Journal, 2021, 27, 2789-2797.	3.3	28
10	CompassR-guided recombination unlocks design principles to stabilize lipases in ILs with minimal experimental efforts. Green Chemistry, 2021, 23, 3474-3486.	9.0	26
11	Heterologous Production of Î²-Caryophyllene and Evaluation of Its Activity against Plant Pathogenic Fungi. Microorganisms, 2021, 9, 168.	3.6	15
12	Construction and comprehensive characterization of an EcLDCc-CatIB setâ€”varying linkers and aggregation inducing tags. Microbial Cell Factories, 2021, 20, 49.	4.0	12
13	Structural determinants underlying the adduct lifetime in the LOV proteins of Pseudomonas putida. FEBS Journal, 2021, 288, 4955-4972.	4.7	9
14	Less Unfavorable Salt Bridges on the Enzyme Surface Result in More Organic Cosolvent Resistance. Angewandte Chemie, 2021, 133, 11549-11557.	2.0	6
15	Less Unfavorable Salt Bridges on the Enzyme Surface Result in More Organic Cosolvent Resistance. Angewandte Chemie - International Edition, 2021, 60, 11448-11456.	13.8	45
16	Promiscuous Esterases Counterintuitively Are Less Flexible than Specific Ones. Journal of Chemical Information and Modeling, 2021, 61, 2383-2395.	5.4	13
17	Emerging Solutions for in Vivo Biocatalyst Immobilization: Tailor-Made Catalysts for Industrial Biocatalysis. ACS Sustainable Chemistry and Engineering, 2021, 9, 8919-8945.	6.7	26
18	Towards robust Pseudomonas cell factories to harbour novel biosynthetic pathways. Essays in Biochemistry, 2021, 65, 319-336.	4.7	44

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19	The iSplit GFP assay detects intracellular recombinant proteins in Bacillus subtilis. Microbial Cell Factories, 2021, 20, 174.	4.0	5
20	Production of C20, C30 and C40 terpenes in the engineered phototrophic bacterium Rhodobacter capsulatus. Journal of Biotechnology, 2021, 338, 20-30.	3.8	9
21	Crystal structures of a novel family IV esterase in free and substrateâ€bound form. FEBS Journal, 2021, 288, 3570-3584.	4.7	15
22	The molecular basis of spectral tuning in blue- and red-shifted flavin-binding fluorescent proteins. Journal of Biological Chemistry, 2021, 296, 100662.	3.4	17
23	Aqueous ionic liquids redistribute local enzyme stability via long-range perturbation pathways. Computational and Structural Biotechnology Journal, 2021, 19, 4248-4264.	4.1	14
24	Biosensor-Based Optimization of Cutinase Secretion by Corynebacterium glutamicum. Frontiers in Microbiology, 2021, 12, 750150.	3.5	7
25	Substrate Access Mechanism in a Novel Membrane-Bound Phospholipase A of Pseudomonas aeruginosa Concordant with Specificity and Regioselectivity. Journal of Chemical Information and Modeling, 2021, 61, 5626-5643.	5.4	7
26	Extreme dependence of Chloroflexus aggregans LOV domain thermo- and photostability on the bound flavin species. Photochemical and Photobiological Sciences, 2021, 20, 1645-1656.	2.9	6
27	Protocols for yTREX /Tn5â€based gene cluster expression in Pseudomonas putida. Microbial Biotechnology, 2020, 13, 250-262.	4.2	14
28	Agar plateâ€based screening methods for the identification of polyester hydrolysis by Pseudomonas species. Microbial Biotechnology, 2020, 13, 274-284.	4.2	62
29	The biotechnological potential of marine bacteria in the novel lineage of Pseudomonas pertucinogena. Microbial Biotechnology, 2020, 13, 19-31.	4.2	35
30	Computerâ€Assisted Recombination (CompassR) Teaches us How to Recombine Beneficial Substitutions from Directed Evolution Campaigns. Chemistry - A European Journal, 2020, 26, 643-649.	3.3	57
31	The Membraneâ€Integrated Steric Chaperone Lif Facilitates Active Site Opening ofPseudomonas aeruginosaLipase A. Journal of Computational Chemistry, 2020, 41, 500-512.	3.3	9
32	Systematically Scrutinizing the Impact of Substitution Sites on Thermostability and Detergent Tolerance for Bacillus subtilis Lipase A. Journal of Chemical Information and Modeling, 2020, 60, 1568-1584.	5.4	21
33	Phylogeny and Structure of Fatty Acid Photodecarboxylases and Glucose-Methanol-Choline Oxidoreductases. Catalysts, 2020, 10, 1072.	3.5	16
34	Enzyme Hydration Determines Resistance in Organic Cosolvents. ACS Catalysis, 2020, 10, 14847-14856.	11.2	53
35	The length of ribosomal binding site spacer sequence controls the production yield for intracellular and secreted proteins by Bacillus subtilis. Microbial Cell Factories, 2020, 19, 154.	4.0	19
36	Ustilago maydis Serves as a Novel Production Host for the Synthesis of Plant and Fungal Sesquiterpenoids. Frontiers in Microbiology, 2020, 11, 1655.	3.5	12

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37	A Straightforward Assay for Screening and Quantification of Biosurfactants in Microbial Culture Supernatants. Frontiers in Bioengineering and Biotechnology, 2020, 8, 958.	4.1	20
38	Integration of Genetic and Process Engineering for Optimized Rhamnolipid Production Using Pseudomonas putida. Frontiers in Bioengineering and Biotechnology, 2020, 8, 976.	4.1	56
39	The Plant Sesquiterpene Nootkatone Efficiently Reduces Heterodera schachtii Parasitism by Activating Plant Defense. International Journal of Molecular Sciences, 2020, 21, 9627.	4.1	11
40	Detailed small-scale characterization and scale-up of active YFP inclusion body production with Escherichia coli induced by a tetrameric coiled coil domain. Journal of Bioscience and Bioengineering, 2020, 129, 730-740.	2.2	11
41	Catalytically-active inclusion bodies for biotechnologyâ€"general concepts, optimization, and application. Applied Microbiology and Biotechnology, 2020, 104, 7313-7329.	3.6	46
42	Structural and dynamic insights revealing how lipase binding domain MD1 of Pseudomonas aeruginosa foldase affects lipase activation. Scientific Reports, 2020, 10, 3578.	3.3	12
43	A Novel Polyester Hydrolase From the Marine Bacterium Pseudomonas aestusnigri â€“ Structural and Functional Insights. Frontiers in Microbiology, 2020, 11, 114.	3.5	172
44	How to Engineer Organic Solvent Resistant Enzymes: Insights from Combined Molecular Dynamics and Directed Evolution Study. ChemCatChem, 2020, 12, 4073-4083.	3.7	45
45	Organic-Solvent-Tolerant Carboxylic Ester Hydrolases for Organic Synthesis. Applied and Environmental Microbiology, 2020, 86, .	3.1	20
46	Ternary Complex Formation and Photoactivation of a Photoenzyme Results in Altered Protein Dynamics. Journal of Physical Chemistry B, 2019, 123, 7372-7384.	2.6	3
47	Engineered Rhodobacter capsulatus as a Phototrophic Platform Organism for the Synthesis of Plant Sesquiterpenoids. Frontiers in Microbiology, 2019, 10, 1998.	3.5	31
48	Targeting 16S rDNA for Stable Recombinant Gene Expression in Pseudomonas. ACS Synthetic Biology, 2019, 8, 1901-1912.	3.8	19
49	Marine Biosurfactants: Biosynthesis, Structural Diversity and Biotechnological Applications. Marine Drugs, 2019, 17, 408.	4.6	97
50	Genetically Encoded Photosensitizers as Light-Triggered Antimicrobial Agents. International Journal of Molecular Sciences, 2019, 20, 4608.	4.1	24
51	Consensus model of a cyanobacterial light-dependent protochlorophyllide oxidoreductase in its pigment-free apo-form and photoactive ternary complex. Communications Biology, 2019, 2, 351.	4.4	9
52	How To Engineer Ionic Liquids Resistant Enzymes: Insights from Combined Molecular Dynamics and Directed Evolution Study. ACS Sustainable Chemistry and Engineering, 2019, 7, 11293-11302.	6.7	38
53	Gerichtete Evolution ermÃ¶glicht das Design von maÃŸgeschneiderten Proteinen zur nachhaltigen Produktion von Chemikalien und Pharmazeutika. Angewandte Chemie, 2019, 131, 36-41.	2.0	19
54	Pseudomonas putida rDNA is a favored site for the expression of biosynthetic genes. Scientific Reports, 2019, 9, 7028.	3.3	20

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55	Interaction of carbohydrate-binding modules with poly(ethylene terephthalate). Applied Microbiology and Biotechnology, 2019, 103, 4801-4812.	3.6	38
56	A thermostable flavin-based fluorescent protein from Chloroflexus aggregans: a framework for ultra-high resolution structural studies. Photochemical and Photobiological Sciences, 2019, 18, 1793-1805.	2.9	30
57	Phototrophic purple bacteria as optoacoustic in vivo reporters of macrophage activity. Nature Communications, 2019, 10, 1191.	12.8	22
58	Classification of Lipolytic Enzymes from Bacteria. , 2019, , 255-289.		14
59	Igni18, a novel metallo-hydrolase from the hyperthermophilic archaeon Ignicoccus hospitalis KIN4/I: cloning, expression, purification and X-ray analysis. Acta Crystallographica Section F, Structural Biology Communications, 2019, 75, 307-311.	0.8	1
60	An Enzymatic 2â€Step Cofactor and Coâ€Product Recycling Cascade towards a Chiral 1,2â€Diol. Part II: Catalytically Active Inclusion Bodies. Advanced Synthesis and Catalysis, 2019, 361, 2616-2626.	4.3	13
61	Biosynthesis of cycloartenol by expression of plant and bacterial oxidosqualene cyclases in engineered Rhodobacter capsulatus. Journal of Biotechnology, 2019, 306, 100014.	3.8	7
62	Decoding the ocean's microbiological secrets for marine enzyme biodiscovery. FEMS Microbiology Letters, 2019, 366, .	1.8	26
63	Bioprospecting Reveals Class III Ï‰-Transaminases Converting Bulky Ketones and Environmentally Relevant Polyamines. Applied and Environmental Microbiology, 2019, 85, .	3.1	17
64	Directed Evolution Empowered Redesign of Natural Proteins for the Sustainable Production of Chemicals and Pharmaceuticals. Angewandte Chemie - International Edition, 2019, 58, 36-40.	13.8	169
65	Classification of Lipolytic Enzymes from Bacteria. , 2019, , 1-35.		13
66	Pseudomonas aeruginosaesterase PA2949, a bacterial homolog of the human membrane esterase ABHD6: expression, purification and crystallization. Acta Crystallographica Section F, Structural Biology Communications, 2019, 75, 270-277.	0.8	12
67	Hydrocarbon-Degrading Microbes as Sources of New Biocatalysts. , 2019, , 353-373.		3
68	Unraveling the effects of amino acid substitutions enhancing lipase resistance to an ionic liquid: a molecular dynamics study. Physical Chemistry Chemical Physics, 2018, 20, 9600-9609.	2.8	22
69	Heterologous production of long-chain rhamnolipids from Burkholderia glumae in Pseudomonas putidaâ€”a step forward to tailor-made rhamnolipids. Applied Microbiology and Biotechnology, 2018, 102, 1229-1239.	3.6	51
70	Online measurement of the respiratory activity in shake flasks enables the identification of cultivation phases and patterns indicating recombinant protein production in various Escherichia coli host strains. Biotechnology Progress, 2018, 34, 315-327.	2.6	12
71	Preparation of Cyclic Prodiginines by Mutasynthesis in Pseudomonas putida KT2440. ChemBioChem, 2018, 19, 1545-1552.	2.6	25
72	High-Throughput Screening Assays for Lipolytic Enzymes. Methods in Molecular Biology, 2018, 1685, 209-231.	0.9	4

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73	Determinants and Prediction of Esterase Substrate Promiscuity Patterns. ACS Chemical Biology, 2018, 13, 225-234.	3.4	106
74	Tailor-made catalytically active inclusion bodies for different applications in biocatalysis. Catalysis Science and Technology, 2018, 8, 5816-5826.	4.1	24
75	An optogenetic toolbox of LOV-based photosensitizers for light-driven killing of bacteria. Scientific Reports, 2018, 8, 15021.	3.3	37
76	Hydrocarbon-Degrading Microbes as Sources of New Biocatalysts. , 2018, , 1-21.		1
77	Disruption of microbial community composition and identification of plant growth promoting microorganisms after exposure of soil to rapeseed-derived glucosinolates. PLoS ONE, 2018, 13, e0200160.	2.5	54
78	A Synthetic Reaction Cascade Implemented by Colocalization of Two Proteins within Catalytically Active Inclusion Bodies. ACS Synthetic Biology, 2018, 7, 2282-2295.	3.8	36
79	Relationships between Substrate Promiscuity and Chiral Selectivity of Esterases from Phylogenetically and Environmentally Diverse Microorganisms. Catalysts, 2018, 8, 10.	3.5	11
80	Mechanistic Basis of the Fast Dark Recovery of the Short LOV Protein DsLOV from Dinoroseobacter shibae. Biochemistry, 2018, 57, 4833-4847.	2.5	17
81	Natural biocide cocktails: Combinatorial antibiotic effects of prodigiosin and biosurfactants. PLoS ONE, 2018, 13, e0200940.	2.5	41
82	Bestimmung der StabilitÃt und EnantioselektivitÃt von Lipasen. BioSpektrum, 2018, 24, 156-159.	0.0	0
83	Exploring the full natural diversity of single amino acid exchange reveals that 40â€“60% of BSLA positions improve organic solvents resistance. Bioresources and Bioprocessing, 2018, 5, .	4.2	27
84	Structure of a LOV protein in apo-state and implications for construction of LOV-based optical tools. Scientific Reports, 2017, 7, 42971.	3.3	16
85	New Prodigiosin Derivatives Obtained by Mutasynthesis in Pseudomonas putida. ACS Synthetic Biology, 2017, 6, 1757-1765.	3.8	49
86	A novel FbFP-based biosensor toolbox for sensitive in vivo determination of intracellular pH. Journal of Biotechnology, 2017, 258, 25-32.	3.8	31
87	Catalytically-active inclusion bodiesâ€”Carrier-free protein immobilizates for application in biotechnology and biomedicine. Journal of Biotechnology, 2017, 258, 136-147.	3.8	64
88	Novel Tools for the Functional Expression of Metagenomic DNA. Methods in Molecular Biology, 2017, 1539, 159-196.	0.9	17
89	Novel Thermostable Flavinâ€binding Fluorescent Proteins from Thermophilic Organisms. Photochemistry and Photobiology, 2017, 93, 849-856.	2.5	22
90	Homogenizing bacterial cell factories: Analysis and engineering of phenotypic heterogeneity. Metabolic Engineering, 2017, 42, 145-156.	7.0	96

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91	A combination of mutational and computational scanning guides the design of an artificial ligand-binding controlled lipase. Scientific Reports, 2017, 7, 42592.	3.3	5
92	Electron transfer pathways in a light, oxygen, voltage (LOV) protein devoid of the photoactive cysteine. Scientific Reports, 2017, 7, 13346.	3.3	45
93	Rapid generation of recombinant Pseudomonas putida secondary metabolite producers using yTREX. Synthetic and Systems Biotechnology, 2017, 2, 310-319.	3.7	36
94	Activity-independent screening of secreted proteins using split GFP. Journal of Biotechnology, 2017, 258, 110-116.	3.8	21
95	Rhamnolipids: Production, Performance, and Application. , 2017, , 587-622.		4
96	Contribution of single amino acid and codon substitutions to the production and secretion of a lipase by Bacillus subtilis. Microbial Cell Factories, 2017, 16, 160.	4.0	17
97	Are Directed Evolution Approaches Efficient in Exploring Natureâ€™s Potential to Stabilize a Lipase in Organic Cosolvents?. Catalysts, 2017, 7, 142.	3.5	34
98	The photosynthetic bacteria Rhodobacter capsulatus and Synechocystis sp. PCC 6803 as new hosts for cyclic plant triterpene biosynthesis. PLoS ONE, 2017, 12, e0189816.	2.5	33
99	Screening for Enantioselective Enzymes. , 2017, , 289-308.		0
100	First Insights into the Genome Sequence of Pseudomonas oleovorans DSM 1045. Genome Announcements, 2017, 5, .	0.8	3
101	Rhamnolipids: Production, Performance, and Application. , 2017, , 1-37.		2
102	A membraneâ€bound esterase PA2949 from PseudomonasÂaeruginosa is expressed and purified from EscherichiaÂcoli. FEBS Open Bio, 2016, 6, 484-493.	2.3	12
103	Fusion of a Coiledâ€Coil Domain Facilitates the Highâ€Level Production of Catalytically Active Enzyme Inclusion Bodies. ChemCatChem, 2016, 8, 142-152.	3.7	56
104	Light-induced gene expression with photocaged IPTG for induction profiling in a high-throughput screening system. Microbial Cell Factories, 2016, 15, 63.	4.0	32
105	Light-Controlled Cell Factories: Employing Photocaged Isopropyl-Î²- <scp>d</scp> -Thiogalactopyranoside for Light-Mediated Optimization of lac Promoter-Based Gene Expression and (+)-Valencene Biosynthesis in Corynebacterium glutamicum. Applied and Environmental Microbiology, 2016, 82, 6141-6149.	3.1	40
106	Photocaged Carbohydrates: Versatile Tools for Controlling Gene Expression by Light. Synthesis, 2016, 49, 42-52.	2.3	5
107	Signaling States of a Short Blue-Light Photoreceptor Protein PpSB1-LOV Revealed from Crystal Structures and Solution NMR Spectroscopy. Journal of Molecular Biology, 2016, 428, 3721-3736.	4.2	31
108	Screening for Enantioselective Lipases. Springer Protocols, 2016, , 37-69.	0.3	1

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109	Metagenomic discovery of novel enzymes and biosurfactants in a slaughterhouse biofilm microbial community. Scientific Reports, 2016, 6, 27035.	3.3	74
110	Photocaged Arabinose: A Novel Optogenetic Switch for Rapid and Gradual Control of Microbial Gene Expression. ChemBioChem, 2016, 17, 296-299.	2.6	26
111	Structural features determining thermal adaptation of esterases. Protein Engineering, Design and Selection, 2016, 29, 65-76.	2.1	46
112	Photophysics of the LOV-Based Fluorescent Protein Variant iLOV-Q489K Determined by Simulation and Experiment. Journal of Physical Chemistry B, 2016, 120, 3344-3352.	2.6	41
113	Mutations improving production and secretion of extracellular lipase by Burkholderia glumae PG1. Applied Microbiology and Biotechnology, 2016, 100, 1265-1273.	3.6	13
114	Application of Rigidity Theory to the Thermostabilization of Lipase A from Bacillus subtilis. PLoS Computational Biology, 2016, 12, e1004754.	3.2	48
115	Comparative Single-Cell Analysis of Different E. coli Expression Systems during Microfluidic Cultivation. PLoS ONE, 2016, 11, e0160711.	2.5	35
116	Functional expression, purification, and biochemical properties of subtilase SprP from Pseudomonas aeruginosa. MicrobiologyOpen, 2015, 4, 743-752.	3.0	11
117	Directionality of substrate translocation of the hemolysin A Type I secretion system. Scientific Reports, 2015, 5, 12470.	3.3	35
118	Purification and simultaneous immobilization of Arabidopsis thaliana hydroxynitrile lyase using a family 2 carbohydrateâ€binding module. Biotechnology Journal, 2015, 10, 811-819.	3.5	13
119	A particular silent codon exchange in a recombinant gene greatly influences host cell metabolic activity. Microbial Cell Factories, 2015, 14, 156.	4.0	18
120	Efficient recombinant production of prodigiosin in Pseudomonas putida. Frontiers in Microbiology, 2015, 6, 972.	3.5	76
121	Light-induced structural changes in a short light, oxygen, voltage (LOV) protein revealed by molecular dynamics simulationsâ€"implications for the understanding of LOV photoactivation. Frontiers in Molecular Biosciences, 2015, 2, 55.	3.5	21
122	Bacterial Secretion Systems for Use in Biotechnology: Autotransporter-Based Cell Surface Display and Ultrahigh-Throughput Screening of Large Protein Libraries. Springer Protocols, 2015, , 87-103.	0.3	0
123	Pressure adaptation is linked to thermal adaptation in saltâ€saturated marine habitats. Environmental Microbiology, 2015, 17, 332-345.	3.8	40
124	Structure and function of a short LOV protein from the marine phototrophic bacterium Dinoroseobacter shibae. BMC Microbiology, 2015, 15, 30.	3.3	36
125	The structure of the Cyberlindnera jadinii genome and its relation to Candida utilis analyzed by the occurrence of single nucleotide polymorphisms. Journal of Biotechnology, 2015, 211, 20-30.	3.8	10
126	Ionic liquid activated Bacillus subtilis lipase A variants through cooperative surface substitutions. Biotechnology and Bioengineering, 2015, 112, 1997-2004.	3.3	22

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127	Exchange of single amino acids at different positions of a recombinant protein affects metabolic burden in Escherichia coli. Microbial Cell Factories, 2015, 14, 10.	4.0	46
128	Complete genome sequence of the lipase producing strain Burkholderia glumae PG1. Journal of Biotechnology, 2015, 204, 3-4.	3.8	13
129	Exploring the Protein Stability Landscape: Bacillus subtilis Lipase A as a Model for Detergent Tolerance. ChemBioChem, 2015, 16, 930-936.	2.6	44
130	Towards Understanding Directed Evolution: More than Half of All Amino Acid Positions Contribute to Ionic Liquid Resistance of Bacillus subtilis Lipase A. ChemBioChem, 2015, 16, 937-945.	2.6	45
131	Genome-Wide RNA Sequencing Analysis of Quorum Sensing-Controlled Regulons in the Plant-Associated Burkholderia glumae PG1 Strain. Applied and Environmental Microbiology, 2015, 81, 7993-8007.	3.1	43
132	The environment shapes microbial enzymes: five cold-active and salt-resistant carboxylesterases from marine metagenomes. Applied Microbiology and Biotechnology, 2015, 99, 2165-2178.	3.6	83
133	Structural Rigidity and Protein Thermostability in Variants of Lipase A from Bacillus subtilis. PLoS ONE, 2015, 10, e0130289.	2.5	64
134	Subtilase SprP exerts pleiotropic effects in Pseudomonas aeruginosa. MicrobiologyOpen, 2014, 3, 89-103.	3.0	12
135	Discovery of the first lightâ€dependent protochlorophyllide oxidoreductase in anoxygenic phototrophic bacteria. Molecular Microbiology, 2014, 93, 1066-1078.	2.5	44
136	Uml2 is a novel CalB-type lipase of Ustilago maydis with phospholipase A activity. Applied Microbiology and Biotechnology, 2014, 98, 4963-4973.	3.6	13
137	Heterologous production of the lipopeptide biosurfactant serrawettin W1 in Escherichia coli. Journal of Biotechnology, 2014, 181, 27-30.	3.8	45
138	Alternative hosts for functional (meta)genome analysis. Applied Microbiology and Biotechnology, 2014, 98, 8099-8109.	3.6	77
139	The photophysics of LOV-based fluorescent proteins â€" new tools for cell biology. Photochemical and Photobiological Sciences, 2014, 13, 875-883.	2.9	95
140	Light-responsive control of bacterial gene expression: precise triggering of thelacpromoter activity using photocaged IPTG. Integrative Biology (United Kingdom), 2014, 6, 755-765.	1.3	39
141	Determination of Lipolytic Enzyme Activities. Methods in Molecular Biology, 2014, 1149, 111-134.	0.9	37
142	Interaction between extracellular lipase LipA and the polysaccharide alginate of Pseudomonas aeruginosa. BMC Microbiology, 2013, 13, 159.	3.3	75
143	Multivalent glycoconjugates as anti-pathogenic agents. Chemical Society Reviews, 2013, 42, 4709-4727.	38.1	464
144	Conservation of Dark Recovery Kinetic Parameters and Structural Features in the Pseudomonadaceae â€œShortâ€•Light, Oxygen, Voltage (LOV) Protein Family: Implications for the Design of LOV-Based Optogenetic Tools. Biochemistry, 2013, 52, 4460-4473.	2.5	15

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145	TREX: A Universal Tool for the Transfer and Expression of Biosynthetic Pathways in Bacteria. ACS Synthetic Biology, 2013, 2, 22-33.	3.8	76
146	Fusion of a Flavin-Based Fluorescent Protein to Hydroxynitrile Lyase from Arabidopsis thaliana Improves Enzyme Stability. Applied and Environmental Microbiology, 2013, 79, 4727-4733.	3.1	14
147	Optimal Scanning of All Single-Point Mutants of a Protein. Journal of Computational Biology, 2013, 20, 990-997.	1.6	11
148	Structural and Functional Characterisation of TesA - A Novel Lysophospholipase A from Pseudomonas aeruginosa. PLoS ONE, 2013, 8, e69125.	2.5	51
149	Synthesis of Chiral Cyanohydrins by Recombinant Escherichia coli Cells in a Micro-Aqueous Reaction System. Applied and Environmental Microbiology, 2012, 78, 5025-5027.	3.1	24
150	A T7 RNA polymerase-based toolkit for the concerted expression of clustered genes. Journal of Biotechnology, 2012, 159, 162-171.	3.8	15
151	Novel broad host range shuttle vectors for expression in Escherichia coli, Bacillus subtilis and Pseudomonas putida. Journal of Biotechnology, 2012, 161, 71-79.	3.8	44
152	Structural Basis for the Slow Dark Recovery of a Full-Length LOV Protein from Pseudomonas putida. Journal of Molecular Biology, 2012, 417, 362-374.	4.2	54
153	Identification of amino acids involved in the hydrolytic activity of lipase LipBL from Marinobacter lipolyticus. Microbiology (United Kingdom), 2012, 158, 2192-2203.	1.8	35
154	Real-time determination of intracellular oxygen in bacteria using a genetically encoded FRET-based biosensor. BMC Biology, 2012, 10, 28.	3.8	102
155	Detection of Prion Protein Particles in Blood Plasma of Scrapie Infected Sheep. PLoS ONE, 2012, 7, e36620.	2.5	35
156	Specific Association of Lectin LecB with the Surface of Pseudomonas aeruginosa: Role of Outer Membrane Protein OprF. PLoS ONE, 2012, 7, e46857.	2.5	36
157	Heterologous High-Level Gene Expression in the Photosynthetic Bacterium Rhodobacter capsulatus. Methods in Molecular Biology, 2012, 824, 251-269.	0.9	11
158	The Metagenome-Derived Enzymes LipS and LipT Increase the Diversity of Known Lipases. PLoS ONE, 2012, 7, e47665.	2.5	72
159	Inhibition of Pseudomonas aeruginosa biofilms with a glycopeptide dendrimer containing D-amino acids. MedChemComm, 2011, 2, 418.	3.4	48
160	The subcellular localization of a C-terminal processing protease in Pseudomonas aeruginosa. FEMS Microbiology Letters, 2011, 316, 23-30.	1.8	31
161	Lights on and action! Controlling microbial gene expression by light. Applied Microbiology and Biotechnology, 2011, 90, 23-40.	3.6	58
162	Enlightened Enzymes: Strategies to Create Novel Photoresponsive Proteins. Chemistry - A European Journal, 2011, 17, 2552-2560.	3.3	39

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163	Autotransporters with GDSL Passenger Domains: Molecular Physiology and Biotechnological Applications. ChemBioChem, 2011, 12, 1476-1485.	2.6	31
164	The Lipase LipA (PA2862) but Not LipC (PA4813) from Pseudomonas aeruginosa Influences Regulation of Pyoverdine Production and Expression of the Sigma Factor PvdS. Journal of Bacteriology, 2011, 193, 5858-5860.	2.2	13
165	Glycosylation Is Required for Outer Membrane Localization of the Lectin LecB inPseudomonas aeruginosa. Journal of Bacteriology, 2011, 193, 1107-1113.	2.2	20
166	Cofactor Trapping, a New Method To Produce Flavin Mononucleotide. Applied and Environmental Microbiology, 2011, 77, 1097-1100.	3.1	11
167	LOVely enzymes â€“ towards engineering lightâ€controllable biocatalysts. Microbial Biotechnology, 2010, 3, 15-23.	4.2	41
168	Enantioselective kinetic resolution of phenylalkyl carboxylic acids using metagenomeâ€derived esterases. Microbial Biotechnology, 2010, 3, 59-64.	4.2	23
169	Probing Enzyme Promiscuity of SGNH Hydrolases. ChemBioChem, 2010, 11, 2158-2167.	2.6	71
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