

Sriram Satagopan

List of Publications by Year in descending order

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Version: 2024-02-01

19
papers

1,279
citations

623734

14
h-index

794594

19
g-index

19
all docs

19
docs citations

19
times ranked

1600
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Distinct form I, II, III, and IV Rubisco proteins from the three kingdoms of life provide clues about Rubisco evolution and structure/function relationships. <i>Journal of Experimental Botany</i> , 2007, 59, 1515-1524. | 4.8 | 341 |
| 2 | Function, Structure, and Evolution of the RubisCO-Like Proteins and Their RubisCO Homologs. <i>Microbiology and Molecular Biology Reviews</i> , 2007, 71, 576-599. | 6.6 | 310 |
| 3 | Phylogenetic and evolutionary relationships of RubisCO and the RubisCO-like proteins and the functional lessons provided by diverse molecular forms. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2008, 363, 2629-2640. | 4.0 | 134 |
| 4 | Phylogenetic engineering at an interface between large and small subunits imparts land-plant kinetic properties to algal Rubisco. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 17225-17230. | 7.1 | 113 |
| 5 | RubisCO of a nucleoside pathway known from Archaea is found in diverse uncultivated phyla in bacteria. <i>ISME Journal</i> , 2016, 10, 2702-2714. | 9.8 | 98 |
| 6 | Substitutions at the Asp-473 Latch Residue of <i>Chlamydomonas</i> Ribulosebiphosphate Carboxylase/Oxygenase Cause Decreases in Carboxylation Efficiency and CO ₂ /O ₂ Specificity. <i>Journal of Biological Chemistry</i> , 2004, 279, 14240-14244. | 3.4 | 41 |
| 7 | Structure-Function Studies with the Unique Hexameric Form II Ribulose-1,5-bisphosphate Carboxylase/Oxygenase (Rubisco) from <i>Rhodospseudomonas palustris</i> . <i>Journal of Biological Chemistry</i> , 2014, 289, 21433-21450. | 3.4 | 36 |
| 8 | RubisCO selection using the vigorously aerobic and metabolically versatile bacterium <i>Ralstonia eutropha</i> . <i>FEBS Journal</i> , 2016, 283, 2869-2880. | 4.7 | 30 |
| 9 | Functional metagenomic selection of ribulose 1, 5-bisphosphate carboxylase/oxygenase from uncultivated bacteria. <i>Environmental Microbiology</i> , 2016, 18, 1187-1199. | 3.8 | 26 |
| 10 | A Rubisco Mutant That Confers Growth under a Normally Inhibitory Oxygen Concentration. <i>Biochemistry</i> , 2009, 48, 9076-9083. | 2.5 | 24 |
| 11 | Synthetic CO ₂ -fixation enzyme cascades immobilized on self-assembled nanostructures that enhance CO ₂ /O ₂ selectivity of RubisCO. <i>Biotechnology for Biofuels</i> , 2017, 10, 175. | 6.2 | 24 |
| 12 | Selection of Cyanobacterial (<i>Synechococcus</i> sp. Strain PCC 6301) RubisCO Variants with Improved Functional Properties That Confer Enhanced CO ₂ -Dependent Growth of <i>Rhodobacter capsulatus</i> , a Photosynthetic Bacterium. <i>MBio</i> , 2019, 10, . | 4.1 | 24 |
| 13 | Isotope discrimination by form IC RubisCO from <i>Ralstonia eutropha</i> and <i>Rhodobacter sphaeroides</i> , metabolically versatile members of Proteobacteria from aquatic and soil habitats. <i>Environmental Microbiology</i> , 2019, 21, 72-80. | 3.8 | 19 |
| 14 | Structural Analysis of Altered Large-Subunit Loop-6/Carboxy-Terminus Interactions That Influence Catalytic Efficiency and CO ₂ /O ₂ Specificity of Ribulose-1,5-bisphosphate Carboxylase/Oxygenase. <i>Biochemistry</i> , 2007, 46, 11080-11089. | 2.5 | 18 |
| 15 | Plant-like substitutions in the large-subunit carboxy terminus of <i>Chlamydomonas</i> Rubisco increase CO ₂ /O ₂ Specificity. <i>BMC Plant Biology</i> , 2008, 8, 85. | 3.6 | 13 |
| 16 | Structural and functional consequences of the replacement of proximal residues Cys172 and Cys192 in the large subunit of ribulose-1,5-bisphosphate carboxylase/oxygenase from <i>Chlamydomonas reinhardtii</i> . <i>Biochemical Journal</i> , 2008, 411, 241-247. | 3.7 | 11 |
| 17 | Structural Perturbations of <i>Rhodospseudomonas palustris</i> Form II RuBisCO Mutant Enzymes That Affect CO ₂ Fixation. <i>Biochemistry</i> , 2019, 58, 3880-3892. | 2.5 | 6 |
| 18 | Carbon Footprint of Biomimetic Carbon Fixation by Immobilizing Nature's CO ₂ -sequestering Enzyme and Regenerating Its Energy Carrier. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 16833-16841. | 6.7 | 6 |

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|----|--|-----|-----------|
| 19 | Polypyrrole membranes as scaffolds for biomolecule immobilization. Smart Materials and Structures, 2016, 25, 125033. | 3.5 | 5 |