# Giordano Rampioni

List of Publications by Year
in descending order



| 58 | 2,581 | 186265 | 197818 |
|---|---|---|---|
| papers | citations | 28 h-index | 49 g-index |

| 69 | 69 | 69 | 3331 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Gene-Expressing Liposomes as Synthetic Cells for Molecular Communication Studies. Frontiers in Bioengineering and Biotechnology, 2019, 7, 1. | 4.1 | 247 |
| 2 | Structural Basis for Native Agonist and Synthetic Inhibitor Recognition by the Pseudomonas aeruginosa Quorum Sensing Regulator PqsR (MvfR). PLoS Pathogens, 2013, 9, e1003508. | 4.7 | 185 |
| 3 | New Life for an Old Drug: the Anthelmintic Drug Niclosamide Inhibits Pseudomonas aeruginosa Quorum Sensing. Antimicrobial Agents and Chemotherapy, 2013, 57, 996-1005. | 3.2 | 169 |
| 4 | Unravelling the Genome-Wide Contributions of Specific 2-Alkyl-4-Quinolones and PqsE to Quorum Sensing in Pseudomonas aeruginosa. PLoS Pathogens, 2016, 12, e1006029. | 4.7 | 140 |
| 5 | RsaL provides quorum sensing homeostasis and functions as a global regulator of gene expression in Pseudomonas aeruginosa. Molecular Microbiology, 2007, 66, 1557-1565. | 2.5 | 130 |
| 6 | Transcriptomic analysis reveals a global alkylâ€quinoloneâ€independent regulatory role for PqsE in facilitating the environmental adaptation of Pseudomonas aeruginosa to plant and animal hosts. Environmental Microbiology, 2010, 12, 1659-1673. | 3.8 | 122 |
| 7 | The art of antibacterial warfare: Deception through interference with quorum sensingâ€“mediated communication. Bioorganic Chemistry, 2014, 55, 60-68. | 4.1 | 105 |
| 8 | The Quorum-Sensing Negative Regulator RsaL of Pseudomonas aeruginosa Binds to the lasI Promoter. Journal of Bacteriology, 2006, 188, 815-819. | 2.2 | 97 |
| 9 | Synthetic cells produce a quorum sensing chemical signal perceived byPseudomonas aeruginosa. Chemical Communications, 2018, 54, 2090-2093. | 4.1 | 89 |
| 10 | Identification of FDA-Approved Drugs as Antivirulence Agents Targeting the pqs Quorum-Sensing System of Pseudomonas aeruginosa. Antimicrobial Agents and Chemotherapy, 2018, 62, . | 3.2 | 82 |
| 11 | Differential Regulation of the Phenazine Biosynthetic Operons by Quorum Sensing in Pseudomonas aeruginosa PAO1-N. Frontiers in Cellular and Infection Microbiology, 2018, 8, 252. | 3.9 | 79 |
| 12 | Effect of efflux pump inhibition on Pseudomonas aeruginosa transcriptome and virulence. Scientific Reports, 2017, 7, 11392. | 3.3 | 76 |
| 13 | Contribution of the RsaL global regulator toPseudomonas aeruginosavirulence and biofilm formation. FEMS Microbiology Letters, 2009, 301, 210-217. | 1.8 | 69 |
| 14 | Toward Repositioning Niclosamide for Antivirulence Therapy of Pseudomonas aeruginosa Lung Infections: Development of Inhalable Formulations through Nanosuspension Technology. Molecular Pharmaceutics, 2015, 12, 2604-2617. | 4.6 | 64 |
| 15 | Contribution of Active Iron Uptake to Acinetobacter baumannii Pathogenicity. Infection and Immunity, 2019, 87, . | 2.2 | 64 |
| 16 | Semi-synthetic minimal cells as a tool for biochemical ICT. BioSystems, 2012, 109, 24-34. | 2.0 | 56 |
| 17 | Salmonella Typhi sense host neuroendocrine stress hormones and release the toxin haemolysin E. EMBO Reports, 2011, 12, 252-258. | 4.5 | 47 |
| 18 | New Shuttle Vectors for Gene Cloning and Expression in Multidrug-Resistant Acinetobacter Species. Antimicrobial Agents and Chemotherapy, 2018, 62, . | 3.2 | 47 |

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|---|---|---|---|
| 19 | An Active-like Structure in the Unphosphorylated StyR Response Regulator Suggests a Phosphorylation- Dependent Allosteric Activation Mechanism. Structure, 2005, 13, 1289-1297. | 3.3 | 46 |
| 20 | The Pseudomonas Quorum-Sensing Regulator RsaL Belongs to the Tetrahelical Superclass of H-T-H Proteins. Journal of Bacteriology, 2007, 189, 1922-1930. | 2.2 | 45 |
| 21 | In Silico Discovery and In Vitro Validation of Catechol-Containing Sulfonohydrazide Compounds as Potent Inhibitors of the Diguanylate Cyclase PleD. Journal of Bacteriology, 2016, 198, 147-156. | 2.2 | 42 |
| 22 | In silico Selection and Experimental Validation of FDA-Approved Drugs as Anti-quorum Sensing Agents. Frontiers in Microbiology, 2019, 10, 2355. | 3.5 | 38 |
| 23 | Styrene-catabolism regulation in Pseudomonas fluorescens ST: phosphorylation of StyR induces dimerization and cooperative DNA-binding. Biochemical and Biophysical Research Communications, 2003, 303, 926-931. | 2.1 | 37 |
| 24 | The virtue of temperance: builtâ€in negative regulators of quorum sensing in Pseudomonas. Molecular Microbiology, 2011, 82, 1060-1070. | 2.5 | 35 |
| 25 | Synthesis of Triazole-Linked Analogues of c-di-GMP and Their Interactions with Diguanylate Cyclase. Journal of Medicinal Chemistry, 2015, 58, 8269-8284. | 6.4 | 34 |
| 26 | A novel bacterial <scp>l</scp>â€arginine sensor controlling câ€diâ€GMP levels in Pseudomonas aeruginosa. Proteins: Structure, Function and Bioinformatics, 2018, 86, 1088-1096. | 2.6 | 31 |
| 27 | Insights into the GTPâ€dependent allosteric control of câ€diâ€GMP hydrolysis from the crystal structure of PA0575 protein from PseudomonasÂaeruginosa. FEBS Journal, 2018, 285, 3815-3834. | 4.7 | 31 |
| 28 | Dual Role of Response Regulator StyR in Styrene Catabolism Regulation. Applied and Environmental Microbiology, 2005, 71, 5411-5419. | 3.1 | 28 |
| 29 | The Pseudomonas putida Lon protease is involved in N-acyl homoserine lactone quorum sensing regulation. BMC Microbiology, 2007, 7, 71. | 3.3 | 28 |
| 30 | Identification of FDA-approved antivirulence drugs targeting thePseudomonas aeruginosaquorum sensing effector protein PqsE. Virulence, 2020, 11, 652-668. | 4.4 | 28 |
| 31 | Drug repurposing for antivirulence therapy against opportunistic bacterial pathogens. Emerging Topics in Life Sciences, 2017, 1, 13-22. | 2.6 | 24 |
| 32 | Pseudomonas aeruginosa mutants defective in glucose uptake have pleiotropic phenotype and altered virulence in non-mammal infection models. Scientific Reports, 2018, 8, 16912. | 3.3 | 23 |
| 33 | PqsE Expands and Differentially Modulates the RhlR Quorum Sensing Regulon in Pseudomonas aeruginosa. Microbiology Spectrum, 2022, 10, . | 3.0 | 23 |
| 34 | A synthetic biology approach to bio-chem-ICT: first moves towards chemical communication between synthetic and natural cells. Natural Computing, 2014, 13, 333-349. | 3.0 | 22 |
| 35 | Adaptive tracking of enzymatic reactions with quantum light. Optics Express, 2019, 27, 35245. | 3.4 | 22 |
| 36 | A New Transcriptional Repressor of the Pseudomonas aeruginosa Quorum Sensing Receptor Gene lasR. PLoS ONE, 2013, 8, e69554. | 2.5 | 21 |

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|---|---|---|---|
| 37 | The multi-output incoherent feedforward loop constituted by the transcriptional regulators LasR and RsaL confers robustness to a subset of quorum sensing genes in Pseudomonas aeruginosa. Molecular BioSystems, 2017, 13, 1080-1089. | 2.9 | 19 |
| 38 | Characterization of the multiple molecular mechanisms underlying RsaL control of phenazineâ€1â€carboxylic acid biosynthesis in the rhizosphere bacterium Pseudomonas aeruginosa PA1201. Molecular Microbiology, 2017, 104, 931-947. | 2.5 | 18 |
| 39 | New Shuttle Vectors for Real-Time Gene Expression Analysis in Multidrug-Resistant Acinetobacter Species: In Vitro and In Vivo Responses to Environmental Stressors. Applied and Environmental Microbiology, 2019, 85, . | 3.1 | 17 |
| 40 | The interplay of StyR and IHF regulates substrate-dependent induction and carbon catabolite repression of styrene catabolism genes in Pseudomonas fluorescens ST. BMC Microbiology, 2008, 8, 92. | 3.3 | 13 |
| 41 | Functional Characterization of the Quorum Sensing Regulator RsaL in the Plant-Beneficial Strain Pseudomonas putida WCS358. Applied and Environmental Microbiology, 2012, 78, 726-734. | 3.1 | 13 |
| 42 | In vitro Activity of Antivirulence Drugs Targeting the las or pqs Quorum Sensing Against Cystic Fibrosis Pseudomonas aeruginosa Isolates. Frontiers in Microbiology, 2022, 13, 845231. | 3.5 | 10 |
| 43 | Chemical communication between synthetic and natural cells: a possible experimental design.. Electronic Proceedings in Theoretical Computer Science, EPTCS, 2013, 130, 14-26. | 0.8 | 9 |
| 44 | Molecular Communications in the Context of â€œSynthetic Cellsâ€•Research. IEEE Transactions on Nanobioscience, 2019, 18, 43-50. | 3.3 | 9 |
| 45 | Affecting Pseudomonas aeruginosa Phenotypic Plasticity by Quorum Sensing Dysregulation Hampers Pathogenicity in Murine Chronic Lung Infection. PLoS ONE, 2014, 9, e112105. | 2.5 | 8 |
| 46 | The Pseudomonas aeruginosa DksA1 protein is involved in H2O2 tolerance and within-macrophages survival and can be replaced by DksA2. Scientific Reports, 2022, 12, . | 3.3 | 7 |
| 47 | Generation of Genetic Tools for Gauging Multiple-Gene Expression at the Single-Cell Level. Applied and Environmental Microbiology, 2021, 87, . | 3.1 | 6 |
| 48 | Styrene is sensed by the N-terminal PAS sensor domain of StyS, a double sensor kinase from the styrene-degrading bacterium Pseudomonas fluorescens ST. Annals of Microbiology, 2015, 65, 1177-1182. | 2.6 | 3 |
| 49 | A Coculture-Based Approach for Screening Campaigns Aimed at Identifying Novel Pseudomonas aeruginosa Quorum Sensing Inhibitors. Methods in Molecular Biology, 2018, 1673, 287-296. | 0.9 | 3 |
| 50 | Current Directions in Synthetic Cell Research. Lecture Notes in Bioengineering, 2018, , 141-154. | 0.4 | 3 |
| 51 | The two Pseudomonas aeruginosa DksA stringent response proteins are largely interchangeable at the whole transcriptome level and in the control of virulenceâ€related traits. Environmental Microbiology, 2021, 23, 5487-5504. | 3.8 | 3 |
| 52 | Styrene, an Unpalatable Substrate with Complex Regulatory Networks. , 2007, , 59-87. | | 3 |
| 53 | Molecular Communication Technology: General Considerations on the Use of Synthetic Cells and Some Hints from In Silico Modelling. Communications in Computer and Information Science, 2014, , 169-189. | 0.5 | 3 |
| 54 | Towards the Engineering of Chemical Communication Between Semi-Synthetic and Natural Cells. , 2014, , 91-104. | | 3 |

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|---|---|---|---|
| 55 | SUSTAINABILITY OF SCHOOLS: A MULTIDISCIPLINARY APPROACH TO STUDYING AIR QUALITY IN EDUCATIONAL BUILDINGS. , 2020, , . | | 2 |
| 56 | Genetic Tools to Study c-di-GMP-Dependent Signaling in Pseudomonas aeruginosa. Methods in Molecular Biology, 2017, 1657, 471-480. | 0.9 | 1 |
| 57 | Interfacing Synthetic Cells with Biological Cells: An Application of the Synthetic Method. , 2018, , . | | 1 |
| 58 | Chemical Exchanges and Actuation in Liposome-Based Synthetic Cells: Interaction with Biological Cells. Lecture Notes in Computer Science, 2019, , 145-158. | 1.3 | 0 |