

Viviana De Luca

List of Publications by Year in descending order

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Version: 2024-02-01

73
papers

2,956
citations

116194

36
h-index

190340

53
g-index

75
all docs

75
docs citations

75
times ranked

1864
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Synthesis, biological evaluation, and in silico studies of potential activators of apoptosis and carbonic anhydrase inhibitors on isatin-5-sulfonamide scaffold. <i>European Journal of Medicinal Chemistry</i> , 2022, 228, 113997. | 2.6 | 16 |
| 2 | Coumarins inhibit $\hat{1}$ -class carbonic anhydrase from <i>Plasmodium falciparum</i> . <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2022, 37, 680-685. | 2.5 | 8 |
| 3 | Heterologous expression and biochemical characterisation of the recombinant $\hat{2}$ -carbonic anhydrase (MpaCA) from the warm-blooded vertebrate pathogen <i>malassezia pachydermatis</i> . <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2022, 37, 62-68. | 2.5 | 8 |
| 4 | A comparative study of carbonic anhydrase activity in lymphocytes from colorectal cancer tissues and adjacent healthy counterparts. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2022, 37, 1651-1655. | 2.5 | 8 |
| 5 | Synthesis and biological evaluation of sulfonamide-based compounds as inhibitors of carbonic anhydrase from <i>Vibrio cholerae</i> . <i>Archiv Der Pharmazie</i> , 2022, 355, . | 2.1 | 3 |
| 6 | Anion inhibition studies of the Zn(II)-bound $\hat{1}$ -carbonic anhydrase from the Gram-negative bacterium <i>Burkholderia terrortorii</i> . <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2021, 36, 372-376. | 2.5 | 19 |
| 7 | Effect of Sulfonamides and Their Structurally Related Derivatives on the Activity of $\hat{1}$ -Carbonic Anhydrase from <i>Burkholderia terrortorii</i> . <i>International Journal of Molecular Sciences</i> , 2021, 22, 571. | 1.8 | 18 |
| 8 | Effect of amino acids and amines on the activity of the recombinant $\hat{1}$ -carbonic anhydrase from the Gram-negative bacterium <i>Burkholderia terrortorii</i> . <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2021, 36, 1000-1006. | 2.5 | 7 |
| 9 | Carbonic Anhydrases: New Perspectives on Protein Functional Role and Inhibition in <i>Helicobacter pylori</i> . <i>Frontiers in Microbiology</i> , 2021, 12, 629163. | 1.5 | 42 |
| 10 | New Sulfanilamide Derivatives Incorporating Heterocyclic Carboxamide Moieties as Carbonic Anhydrase Inhibitors. <i>Pharmaceuticals</i> , 2021, 14, 828. | 1.7 | 11 |
| 11 | Inhibitory Effects of Sulfonamide Derivatives on the $\hat{2}$ -Carbonic Anhydrase (MpaCA) from <i>Malassezia pachydermatis</i> , a Commensal, Pathogenic Fungus Present in Domestic Animals. <i>International Journal of Molecular Sciences</i> , 2021, 22, 12601. | 1.8 | 3 |
| 12 | Use of an immobilised thermostable $\hat{1}$ -CA (SspCA) for enhancing the metabolic efficiency of the freshwater green microalga <i>Chlorella sorokiniana</i> . <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2020, 35, 913-920. | 2.5 | 11 |
| 13 | The Effect of Substituted Benzene-Sulfonamides and Clinically Licensed Drugs on the Catalytic Activity of CynT2, a Carbonic Anhydrase Crucial for <i>Escherichia coli</i> Life Cycle. <i>International Journal of Molecular Sciences</i> , 2020, 21, 4175. | 1.8 | 18 |
| 14 | Anion Inhibition Studies of the Beta-Carbonic Anhydrase from <i>Escherichia coli</i> . <i>Molecules</i> , 2020, 25, 2564. | 1.7 | 17 |
| 15 | Discovery of New Potential Anti-Infective Compounds Based on Carbonic Anhydrase Inhibitors by Rational Target-Focused Repurposing Approaches. <i>ChemMedChem</i> , 2016, 11, 1904-1914. | 1.6 | 49 |
| 16 | Anion inhibition profiles of $\hat{1}$ -, $\hat{2}$ - and $\hat{3}$ -carbonic anhydrases from the pathogenic bacterium <i>Vibrio cholerae</i> . <i>Bioorganic and Medicinal Chemistry</i> , 2016, 24, 3413-3417. | 1.4 | 49 |
| 17 | Synthesis of 4-(thiazol-2-ylamino)-benzenesulfonamides with carbonic anhydrase I, II and IX inhibitory activity and cytotoxic effects against breast cancer cell lines. <i>Bioorganic and Medicinal Chemistry</i> , 2016, 24, 3043-3051. | 1.4 | 53 |
| 18 | Cloning, expression, purification and sulfonamide inhibition profile of the complete domain of the $\hat{1}$ -carbonic anhydrase from <i>Plasmodium falciparum</i> . <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016, 26, 4184-4190. | 1.0 | 37 |

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|----|---|-----|-----------|
| 19 | Anion inhibition profiles of the complete domain of the $\hat{\Gamma}$ -carbonic anhydrase from <i>Plasmodium falciparum</i> . <i>Bioorganic and Medicinal Chemistry</i> , 2016, 24, 4410-4414. | 1.4 | 34 |
| 20 | Cloning, expression and purification of the complete domain of the $\hat{\Gamma}$ -carbonic anhydrase from <i>Plasmodium falciparum</i> . <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2016, 31, 54-59. | 2.5 | 59 |
| 21 | A new hexapeptide from the leader peptide of rMnSOD enters cells through the oestrogen receptor to deliver therapeutic molecules. <i>Scientific Reports</i> , 2016, 6, 18691. | 1.6 | 7 |
| 22 | Cloning, characterization and anion inhibition studies of a $\hat{\Gamma}^3$ -carbonic anhydrase from the Antarctic bacterium <i>Colwellia psychrerythraea</i> . <i>Bioorganic and Medicinal Chemistry</i> , 2016, 24, 835-840. | 1.4 | 44 |
| 23 | A new procedure for the cloning, expression and purification of the $\hat{\Gamma}^2$ -carbonic anhydrase from the pathogenic yeast <i>Malassezia globosa</i> , an anti-dandruff drug target. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2016, 31, 1156-1161. | 2.5 | 30 |
| 24 | Sulfonamide inhibition studies of the $\hat{\Gamma}^2$ -carbonic anhydrase from the pathogenic bacterium <i>Vibrio cholerae</i> . <i>Bioorganic and Medicinal Chemistry</i> , 2016, 24, 1115-1120. | 1.4 | 57 |
| 25 | Sulfonamide inhibition studies of the $\hat{\Gamma}^3$ -carbonic anhydrase from the Antarctic bacterium <i>Colwellia psychrerythraea</i> . <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016, 26, 1253-1259. | 1.0 | 13 |
| 26 | Anion inhibition studies of the $\hat{\Gamma}^2$ -carbonic anhydrase from the pathogenic bacterium <i>Vibrio cholerae</i> . <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016, 26, 1406-1410. | 1.0 | 39 |
| 27 | Comparison of the sulfonamide inhibition profiles of the $\hat{\Gamma}^{\pm}$, $\hat{\Gamma}^2$ - and $\hat{\Gamma}^3$ -carbonic anhydrases from the pathogenic bacterium <i>Vibrio cholerae</i> . <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016, 26, 1941-1946. | 1.0 | 50 |
| 28 | Recombinant thermoactive phosphoenolpyruvate carboxylase (PEPC) from <i>Thermosynechococcus elongatus</i> and its coupling with mesophilic/thermophilic bacterial carbonic anhydrases (CAs) for the conversion of CO ₂ to oxaloacetate. <i>Bioorganic and Medicinal Chemistry</i> , 2016, 24, 220-225. | 1.4 | 18 |
| 29 | Expression and characterization of a recombinant psychrophilic $\hat{\Gamma}^3$ -carbonic anhydrase (NcoCA) identified in the genome of the Antarctic cyanobacteria belonging to the genus <i>Nostoc</i> . <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2016, 31, 810-817. | 2.5 | 7 |
| 30 | Carbonic Anhydrase Protects Fatty Liver Grafts against Ischemic Reperfusion Damage. <i>PLoS ONE</i> , 2015, 10, e0134499. | 1.1 | 8 |
| 31 | Protonography, a powerful tool for analyzing the activity and the oligomeric state of the $\hat{\Gamma}^3$ -carbonic anhydrase identified in the genome of <i>Porphyromonas gingivalis</i> . <i>Bioorganic and Medicinal Chemistry</i> , 2015, 23, 3747-3750. | 1.4 | 41 |
| 32 | Cloning, characterization and anion inhibition study of a $\hat{\Gamma}^2$ -class carbonic anhydrase from the caries producing pathogen <i>Streptococcus mutans</i> . <i>Bioorganic and Medicinal Chemistry</i> , 2015, 23, 2995-3001. | 1.4 | 27 |
| 33 | Crystal structure of the most catalytically effective carbonic anhydrase enzyme known, SazCA from the thermophilic bacterium <i>Sulfurihydrogenibium azorense</i> . <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015, 25, 2002-2006. | 1.0 | 72 |
| 34 | Cloning, characterization and anion inhibition studies of a $\hat{\Gamma}^3$ -carbonic anhydrase from the Antarctic cyanobacterium <i>Nostoc commune</i> . <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015, 25, 4970-4975. | 1.0 | 13 |
| 35 | Protonography, a technique applicable for the analysis of $\hat{\Gamma}$ -carbonic anhydrase activity. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2015, 30, 920-924. | 2.5 | 48 |
| 36 | A failed tentative to design a super carbonic anhydrase having the biochemical properties of the most thermostable CA (SspCA) and the fastest (SazCA) enzymes. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2015, 30, 989-994. | 2.5 | 13 |

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|----|---|-----|-----------|
| 37 | Biochemical characterization of recombinant $\hat{\Gamma}^2$ -carbonic anhydrase (PgiCAB) identified in the genome of the oral pathogenic bacterium <i>Porphyrromonas gingivalis</i> . Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 366-370. | 2.5 | 66 |
| 38 | Sulfonamide inhibition studies of the $\hat{\Gamma}^3$ -carbonic anhydrase from the Antarctic bacterium <i>Pseudoalteromonas haloplanktis</i> . Bioorganic and Medicinal Chemistry Letters, 2015, 25, 3550-3555. | 1.0 | 28 |
| 39 | Cloning, characterization and anion inhibition studies of a new $\hat{\Gamma}^3$ -carbonic anhydrase from the Antarctic bacterium <i>Pseudoalteromonas haloplanktis</i> . Bioorganic and Medicinal Chemistry, 2015, 23, 4405-4409. | 1.4 | 26 |
| 40 | Sulfonamide inhibition studies of the $\hat{\Gamma}^3$ -carbonic anhydrase from the Antarctic cyanobacterium <i>Nostoc commune</i> . Bioorganic and Medicinal Chemistry, 2015, 23, 1728-1734. | 1.4 | 33 |
| 41 | Acetazolamide Protects Steatotic Liver Grafts against Cold Ischemia Reperfusion Injury. Journal of Pharmacology and Experimental Therapeutics, 2015, 355, 191-198. | 1.3 | 16 |
| 42 | Protonography, a new technique for the analysis of carbonic anhydrase activity. Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 277-282. | 2.5 | 81 |
| 43 | Biochemical characterization of the $\hat{\Gamma}$ -carbonic anhydrase from the marine diatom <i>Thalassiosira weissflogii</i> , TweCA. Journal of Enzyme Inhibition and Medicinal Chemistry, 2014, 29, 906-911. | 2.5 | 64 |
| 44 | Biomimetic CO ₂ capture using a highly thermostable bacterial $\hat{\Gamma}^{\pm}$ -carbonic anhydrase immobilized on a polyurethane foam. Journal of Enzyme Inhibition and Medicinal Chemistry, 2014, 29, 146-150. | 2.5 | 131 |
| 45 | Lumped Parameter Modeling for Thermal Characterization of High-Power Modules. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2014, 4, 1613-1623. | 1.4 | 30 |
| 46 | Biochemical characterization of the $\hat{\Gamma}^3$ -carbonic anhydrase from the oral pathogen <i>Porphyrromonas gingivalis</i> , PgiCA. Journal of Enzyme Inhibition and Medicinal Chemistry, 2014, 29, 532-537. | 2.5 | 64 |
| 47 | Sulfonamide inhibition studies of the $\hat{\Gamma}$ -carbonic anhydrase from the diatom <i>Thalassiosira weissflogii</i> . Bioorganic and Medicinal Chemistry Letters, 2014, 24, 275-279. | 1.0 | 49 |
| 48 | Shading the TRF2 Recruiting Function: A New Horizon in Drug Development. Journal of the American Chemical Society, 2014, 136, 16708-16711. | 6.6 | 23 |
| 49 | Immobilization of carbonic anhydrase for biomimetic CO ₂ capture in slurry absorber. New Biotechnology, 2014, 31, S20-S21. | 2.4 | 2 |
| 50 | Sulfonamide inhibition studies of the $\hat{\Gamma}^3$ -carbonic anhydrase from the oral pathogen <i>Porphyrromonas gingivalis</i> . Bioorganic and Medicinal Chemistry Letters, 2014, 24, 240-244. | 1.0 | 50 |
| 51 | Biochemical properties of a new $\hat{\Gamma}^{\pm}$ -carbonic anhydrase from the human pathogenic bacterium, <i>Vibrio cholerae</i> . Journal of Enzyme Inhibition and Medicinal Chemistry, 2014, 29, 23-27. | 2.5 | 90 |
| 52 | Effect of a recombinant manganese superoxide dismutase on prevention of contrast-induced acute kidney injury. Clinical and Experimental Nephrology, 2013, 18, 424-31. | 0.7 | 46 |
| 53 | An $\hat{\Gamma}^{\pm}$ -carbonic anhydrase from the thermophilic bacterium <i>Sulphurihydrogenibium azorense</i> is the fastest enzyme known for the CO ₂ hydration reaction. Bioorganic and Medicinal Chemistry, 2013, 21, 1465-1469. | 1.4 | 121 |
| 54 | The extremo- $\hat{\Gamma}^{\pm}$ -carbonic anhydrase (CA) from <i>Sulphurihydrogenibium azorense</i> , the fastest CA known, is highly activated by amino acids and amines. Bioorganic and Medicinal Chemistry Letters, 2013, 23, 1087-1090. | 1.0 | 55 |

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|----|--|-----|-----------|
| 55 | A highly catalytically active Γ^3 -carbonic anhydrase from the pathogenic anaerobe <i>Porphyromonas gingivalis</i> and its inhibition profile with anions and small molecules. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2013, 23, 4067-4071. | 1.0 | 62 |
| 56 | The extremo- Γ^\pm -carbonic anhydrase from the thermophilic bacterium <i>Sulfurihydrogenibium azorense</i> is highly inhibited by sulfonamides. <i>Bioorganic and Medicinal Chemistry</i> , 2013, 21, 4521-4525. | 1.4 | 68 |
| 57 | The alpha-carbonic anhydrase from the thermophilic bacterium <i>Sulfurihydrogenibium yellowstonense</i> YO3AOP1 is highly susceptible to inhibition by sulfonamides. <i>Bioorganic and Medicinal Chemistry</i> , 2013, 21, 1534-1538. | 1.4 | 54 |
| 58 | Nothepsin. , 2013, , 63-69. | | 0 |
| 59 | Anion inhibition studies of the Γ^\pm -carbonic anhydrase from the pathogenic bacterium <i>Vibrio cholerae</i> . <i>Bioorganic and Medicinal Chemistry Letters</i> , 2013, 23, 1636-1638. | 1.0 | 54 |
| 60 | Kinetic study of a novel thermo-stable Γ^\pm -carbonic anhydrase for biomimetic CO2 capture. <i>Enzyme and Microbial Technology</i> , 2013, 53, 271-277. | 1.6 | 35 |
| 61 | X-ray structure of the first 'extremo- Γ^\pm -carbonic anhydrase', a dimeric enzyme from the thermophilic bacterium <i>Sulfurihydrogenibium yellowstonense</i> YO3AOP1. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2013, 69, 1150-1159. | 2.5 | 100 |
| 62 | DNA Cloning, Characterization, and Inhibition Studies of an Γ^\pm -Carbonic Anhydrase from the Pathogenic Bacterium <i>Vibrio cholerae</i> . <i>Journal of Medicinal Chemistry</i> , 2012, 55, 10742-10748. | 2.9 | 103 |
| 63 | Anion inhibition studies of the fastest carbonic anhydrase (CA) known, the extremo-CA from the bacterium <i>Sulfurihydrogenibium azorense</i> . <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012, 22, 7142-7145. | 1.0 | 69 |
| 64 | The first activation study of a bacterial carbonic anhydrase (CA). The thermostable Γ^\pm -CA from <i>Sulfurihydrogenibium yellowstonense</i> YO3AOP1 is highly activated by amino acids and amines. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012, 22, 6324-6327. | 1.0 | 73 |
| 65 | Biochemical properties of a novel and highly thermostable bacterial Γ^\pm -carbonic anhydrase from <i>Sulfurihydrogenibium yellowstonense</i> YO3AOP1. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2012, 27, 892-897. | 2.5 | 111 |
| 66 | Anion inhibition studies of an Γ^\pm -carbonic anhydrase from the thermophilic bacterium <i>Sulfurihydrogenibium yellowstonense</i> YO3AOP1. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012, 22, 5630-5634. | 1.0 | 77 |
| 67 | A Molecular Carrier to Transport and Deliver Cisplatin into Endometrial Cancer Cells. <i>Chemical Biology and Drug Design</i> , 2012, 80, 9-16. | 1.5 | 5 |
| 68 | Associations of selenium status with cardiometabolic risk factors: An 8-year follow-up analysis of the Olivetti Heart Study. <i>Atherosclerosis</i> , 2011, 217, 274-278. | 0.4 | 81 |
| 69 | Gene expression profiling of phytoplasma-infected Madagascar periwinkle leaves using differential display. <i>Molecular Biology Reports</i> , 2011, 38, 2993-3000. | 1.0 | 23 |
| 70 | The leader peptide of a human rec. MnSOD as molecular carrier which delivers high amounts of Cisplatin into tumor cells inducing a fast apoptosis <i>in vitro</i> . <i>International Journal of Cancer</i> , 2011, 128, 453-459. | 2.3 | 15 |
| 71 | Dietary sodium intake in a sample of adult male population in southern Italy: results of the Olivetti Heart Study. <i>European Journal of Clinical Nutrition</i> , 2010, 64, 518-524. | 1.3 | 36 |
| 72 | Aspartic proteinases in Antarctic fish. <i>Marine Genomics</i> , 2009, 2, 1-10. | 0.4 | 16 |

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| 73 | Differential display analysis of gene expression in Etrog citron leaves infected by Citrus viroid III. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 2007, 1769, 228-235. | 2.4 | 36 |