

Rosa Fernandes

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

81
papers

2,525
citations

32
h-index

48
g-index

94
ext. papers

2,939
ext. citations

5
avg, IF

5.01
L-index

| # | Paper | IF | Citations |
|----|--|------|-----------|
| 81 | Methylglyoxal promotes oxidative stress and endothelial dysfunction. <i>Pharmacological Research</i> , 2012 , 65, 497-506 | 10.2 | 151 |
| 80 | Exosomes secreted by cardiomyocytes subjected to ischaemia promote cardiac angiogenesis. <i>Cardiovascular Research</i> , 2017 , 113, 1338-1350 | 9.9 | 126 |
| 79 | Effects of sitagliptin treatment on dysmetabolism, inflammation, and oxidative stress in an animal model of type 2 diabetes (ZDF rat). <i>Mediators of Inflammation</i> , 2010 , 2010, 592760 | 4.3 | 126 |
| 78 | Metformin restores endothelial function in aorta of diabetic rats. <i>British Journal of Pharmacology</i> , 2011 , 163, 424-37 | 8.6 | 120 |
| 77 | Diabetic nephropathy amelioration by a low-dose sitagliptin in an animal model of type 2 diabetes (Zucker diabetic fatty rat). <i>Experimental Diabetes Research</i> , 2011 , 2011, 162092 | | 112 |
| 76 | Sitagliptin prevents inflammation and apoptotic cell death in the kidney of type 2 diabetic animals. <i>Mediators of Inflammation</i> , 2014 , 2014, 538737 | 4.3 | 85 |
| 75 | The chaperone-dependent ubiquitin ligase CHIP targets HIF-1 α for degradation in the presence of methylglyoxal. <i>PLoS ONE</i> , 2010 , 5, e15062 | 3.7 | 84 |
| 74 | Effects of alpha-lipoic acid on endothelial function in aged diabetic and high-fat fed rats. <i>British Journal of Pharmacology</i> , 2008 , 153, 894-906 | 8.6 | 76 |
| 73 | Amphiphilic phthalocyanine-cyclodextrin conjugates for cancer photodynamic therapy. <i>Chemical Communications</i> , 2014 , 50, 8363-6 | 5.8 | 75 |
| 72 | Protective effects of the dipeptidyl peptidase IV inhibitor sitagliptin in the blood-retinal barrier in a type 2 diabetes animal model. <i>Diabetes, Obesity and Metabolism</i> , 2012 , 14, 454-63 | 6.7 | 67 |
| 71 | Photodynamic inactivation of <i>Penicillium chrysogenum</i> conidia by cationic porphyrins. <i>Photochemical and Photobiological Sciences</i> , 2011 , 10, 1735-43 | 4.2 | 66 |
| 70 | High glucose down-regulates intercellular communication in retinal endothelial cells by enhancing degradation of connexin 43 by a proteasome-dependent mechanism. <i>Journal of Biological Chemistry</i> , 2004 , 279, 27219-24 | 5.4 | 64 |
| 69 | Diabetic gut microbiota dysbiosis as an inflammaging and immunosenescence condition that fosters progression of retinopathy and nephropathy. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2019 , 1865, 1876-1897 | 6.9 | 60 |
| 68 | Methylglyoxal-induced imbalance in the ratio of vascular endothelial growth factor to angiotensin II secreted by retinal pigment epithelial cells leads to endothelial dysfunction. <i>Experimental Physiology</i> , 2010 , 95, 955-70 | 2.4 | 57 |
| 67 | Dipeptidyl peptidase-IV inhibition prevents blood-retinal barrier breakdown, inflammation and neuronal cell death in the retina of type 1 diabetic rats. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2014 , 1842, 1454-63 | 6.9 | 55 |
| 66 | Phthalocyanine thio-pyridinium derivatives as antibacterial photosensitizers. <i>Photochemistry and Photobiology</i> , 2012 , 88, 537-47 | 3.6 | 53 |
| 65 | Regulation of claudins in blood-tissue barriers under physiological and pathological states. <i>Tissue Barriers</i> , 2013 , 1, e24782 | 4.3 | 51 |

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| 64 | Adiponectin improves endothelial function in mesenteric arteries of rats fed a high-fat diet: role of perivascular adipose tissue. <i>British Journal of Pharmacology</i> , 2017 , 174, 3514-3526 | 8.6 | 49 |
| 63 | Antibodies armed with photosensitizers: from chemical synthesis to photobiological applications. <i>Organic and Biomolecular Chemistry</i> , 2015 , 13, 2518-29 | 3.9 | 45 |
| 62 | Reduced levels of circulating endothelial progenitor cells in acute myocardial infarction patients with diabetes or pre-diabetes: accompanying the glycemic continuum. <i>Cardiovascular Diabetology</i> , 2014 , 13, 101 | 8.7 | 44 |
| 61 | Sweet Stress: Coping With Vascular Dysfunction in Diabetic Retinopathy. <i>Frontiers in Physiology</i> , 2018 , 9, 820 | 4.6 | 40 |
| 60 | Galactodendritic phthalocyanine targets carbohydrate-binding proteins enhancing photodynamic therapy. <i>PLoS ONE</i> , 2014 , 9, e95529 | 3.7 | 39 |
| 59 | Downregulation of retinal GLUT1 in diabetes by ubiquitinylation. <i>Molecular Vision</i> , 2004 , 10, 618-28 | 2.3 | 39 |
| 58 | The Place of Dipeptidyl Peptidase-4 Inhibitors in Type 2 Diabetes Therapeutics: A "Me Too" or "the Special One" Antidiabetic Class?. <i>Journal of Diabetes Research</i> , 2015 , 2015, 806979 | 3.9 | 38 |
| 57 | Methylglyoxal alters the function and stability of critical components of the protein quality control. <i>PLoS ONE</i> , 2010 , 5, e13007 | 3.7 | 38 |
| 56 | Porphyrin conjugated with serum albumins and monoclonal antibodies boosts efficiency in targeted destruction of human bladder cancer cells. <i>Organic and Biomolecular Chemistry</i> , 2014 , 12, 1804-11 | 3.9 | 37 |
| 55 | Reactive oxygen species downregulate glucose transport system in retinal endothelial cells. <i>American Journal of Physiology - Cell Physiology</i> , 2011 , 300, C927-36 | 5.4 | 36 |
| 54 | Cancer cell spheroids are a better screen for the photodynamic efficiency of glycosylated photosensitizers. <i>PLoS ONE</i> , 2017 , 12, e0177737 | 3.7 | 35 |
| 53 | Inner blood-retinal barrier GLUT1 in long-term diabetic rats: an immunogold electron microscopic study. <i>Investigative Ophthalmology and Visual Science</i> , 2003 , 44, 3150-4 | | 34 |
| 52 | Protective Effect of a GLP-1 Analog on Ischemia-Reperfusion Induced Blood-Retinal Barrier Breakdown and Inflammation 2016 , 57, 2584-92 | | 34 |
| 51 | New platinum(II)-bipyridyl corrole complexes: Synthesis, characterization and binding studies with DNA and HSA. <i>Journal of Inorganic Biochemistry</i> , 2015 , 153, 32-41 | 4.2 | 33 |
| 50 | Photoimmunoconjugates: novel synthetic strategies to target and treat cancer by photodynamic therapy. <i>Organic and Biomolecular Chemistry</i> , 2019 , 17, 2579-2593 | 3.9 | 32 |
| 49 | The Sulforaphane and pyridoxamine supplementation normalize endothelial dysfunction associated with type 2 diabetes. <i>Scientific Reports</i> , 2017 , 7, 14357 | 4.9 | 28 |
| 48 | Synthesis, characterization and biomolecule-binding properties of novel tetra-platinum(II)-thiopyridylporphyrins. <i>Dalton Transactions</i> , 2015 , 44, 530-8 | 4.3 | 27 |
| 47 | Mitochondria-Targeted Photodynamic Therapy with a Galactodendritic Chlorin to Enhance Cell Death in Resistant Bladder Cancer Cells. <i>Bioconjugate Chemistry</i> , 2016 , 27, 2762-2769 | 6.3 | 27 |

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| 46 | Dual functionality of phosphonic-acid-appended phthalocyanines: inhibitors of urokinase plasminogen activator and anticancer photodynamic agents. <i>Chemical Communications</i> , 2015 , 51, 15550-3 | 5.8 | 22 |
| 45 | PEG-containing ruthenium phthalocyanines as photosensitizers for photodynamic therapy: synthesis, characterization and in vitro evaluation. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 5862-5869 | 7.3 | 22 |
| 44 | Diet-Induced Rodent Models of Diabetic Peripheral Neuropathy, Retinopathy and Nephropathy. <i>Nutrients</i> , 2020 , 12, | 6.7 | 21 |
| 43 | Renoprotective Effects of the Dipeptidyl Peptidase-4 Inhibitor Sitagliptin: A Review in Type 2 Diabetes. <i>Journal of Diabetes Research</i> , 2017 , 2017, 5164292 | 3.9 | 21 |
| 42 | Stimulation of endothelial progenitor cells: a new putative effect of several cardiovascular drugs. <i>European Journal of Clinical Pharmacology</i> , 2010 , 66, 219-30 | 2.8 | 21 |
| 41 | The incretin system ABCs in obesity and diabetes - novel therapeutic strategies for weight loss and beyond. <i>Obesity Reviews</i> , 2016 , 17, 553-72 | 10.6 | 21 |
| 40 | Multicharged Phthalocyanines as Selective Ligands for G-Quadruplex DNA Structures. <i>Molecules</i> , 2019 , 24, | 4.8 | 21 |
| 39 | The role of galectin-1 in in vitro and in vivo photodynamic therapy with a galactodendritic porphyrin. <i>European Journal of Cancer</i> , 2016 , 68, 60-69 | 7.5 | 19 |
| 38 | Oxidative stress upregulates ubiquitin proteasome pathway in retinal endothelial cells. <i>Molecular Vision</i> , 2006 , 12, 1526-35 | 2.3 | 19 |
| 37 | Carbon-1 versus Carbon-3 Linkage of d-Galactose to Porphyrins: Synthesis, Uptake, and Photodynamic Efficiency. <i>Bioconjugate Chemistry</i> , 2018 , 29, 306-315 | 6.3 | 18 |
| 36 | Sitagliptin prevents aggravation of endocrine and exocrine pancreatic damage in the Zucker Diabetic Fatty rat - focus on amelioration of metabolic profile and tissue cytoprotective properties. <i>Diabetology and Metabolic Syndrome</i> , 2014 , 6, 42 | 5.6 | 18 |
| 35 | Diet-induced rodent models of obesity-related metabolic disorders-A guide to a translational perspective. <i>Obesity Reviews</i> , 2020 , 21, e13081 | 10.6 | 16 |
| 34 | Fluorescence biolabeling using methylated silica nanoparticles containing a lanthanide complex. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 5429-5435 | 7.3 | 15 |
| 33 | Highly Efficient Singlet Oxygen Generators Based on Ruthenium Phthalocyanines: Synthesis, Characterization and in vitro Evaluation for Photodynamic Therapy. <i>Chemistry - A European Journal</i> , 2020 , 26, 1789-1799 | 4.8 | 15 |
| 32 | Microglia Contribution to the Regulation of the Retinal and Choroidal Vasculature in Age-Related Macular Degeneration. <i>Cells</i> , 2020 , 9, | 7.9 | 13 |
| 31 | The dipeptidyl peptidase-4 (DPP-4) inhibitor sitagliptin ameliorates retinal endothelial cell dysfunction triggered by inflammation. <i>Biomedicine and Pharmacotherapy</i> , 2018 , 102, 833-838 | 7.5 | 11 |
| 30 | Synthesis, Characterization and In Vitro Evaluation of Carbohydrate-Containing Ruthenium Phthalocyanines as Third Generation Photosensitizers for Photodynamic Therapy. <i>ChemPhotoChem</i> , 2018 , 2, 640-654 | 3.3 | 11 |
| 29 | Circulating endothelial progenitor cells as a predictor of response to cardiac resynchronization therapy: the missing piece of the puzzle?. <i>PACE - Pacing and Clinical Electrophysiology</i> , 2014 , 37, 731-9 | 1.6 | 11 |

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| 28 | Electrochemical Immunosensor for TNF α -Mediated Inflammatory Disease Screening. <i>ACS Chemical Neuroscience</i> , 2019 , 10, 2676-2682 | 5.7 | 10 |
| 27 | Type 2 diabetes aggravates Alzheimer's disease-associated vascular alterations of the aorta in mice. <i>Journal of Alzheimer's Disease</i> , 2015 , 45, 127-38 | 4.3 | 10 |
| 26 | Extracellular Vesicles and MicroRNA: Putative Role in Diagnosis and Treatment of Diabetic Retinopathy. <i>Antioxidants</i> , 2020 , 9, | 7.1 | 10 |
| 25 | Atorvastatin-mediated protection of the retina in a model of diabetes with hyperlipidemia. <i>Canadian Journal of Physiology and Pharmacology</i> , 2014 , 92, 1037-43 | 2.4 | 9 |
| 24 | Endothelial progenitor cells in diabetic patients with myocardial infarction - can statins improve their function?. <i>European Journal of Pharmacology</i> , 2014 , 741, 25-36 | 5.3 | 9 |
| 23 | Patient characteristics and disposition after pediatric medical emergency team (MET) activation: disposition depends on who activates the team. <i>Hospital Pediatrics</i> , 2014 , 4, 99-105 | 2.5 | 9 |
| 22 | The dipeptidyl peptidase 4 inhibitor sitagliptin improves oxidative stress and ameliorates glomerular lesions in a rat model of type 1 diabetes. <i>Life Sciences</i> , 2019 , 234, 116738 | 6.8 | 8 |
| 21 | A Galactose Dendritic Silicon (IV) Phthalocyanine as a Photosensitizing Agent in Cancer Photodynamic Therapy. <i>ChemPlusChem</i> , 2018 , 83, 855-860 | 2.8 | 7 |
| 20 | An experimental model for the evaluation of lipid peroxidation in lens membranes. <i>Current Eye Research</i> , 1996 , 15, 395-402 | 2.9 | 7 |
| 19 | Presymptomatic MPTP Mice Show Neurotrophic S100B/mRAGE Striatal Levels. <i>CNS Neuroscience and Therapeutics</i> , 2016 , 22, 396-403 | 6.8 | 6 |
| 18 | Synthesis, Characterization and Photodynamic Activity against Bladder Cancer Cells of Novel Triazole-Porphyrin Derivatives. <i>Molecules</i> , 2020 , 25, | 4.8 | 5 |
| 17 | Impact of prior chronic statin therapy and high-intensity statin therapy at discharge on circulating endothelial progenitor cell levels in patients with acute myocardial infarction: a prospective observational study. <i>European Journal of Clinical Pharmacology</i> , 2014 , 70, 1181-93 | 2.8 | 4 |
| 16 | Challenges in vascular repair by endothelial progenitor cells in diabetic patients. <i>Cardiovascular & Hematological Disorders Drug Targets</i> , 2010 , 10, 161-6 | 1.1 | 4 |
| 15 | Caveolin-1 Modulation Increases Efficacy of a Galacto-Conjugated Phthalocyanine in Bladder Cancer Cells Resistant to Photodynamic Therapy. <i>Molecular Pharmaceutics</i> , 2020 , 17, 2145-2154 | 5.6 | 3 |
| 14 | Drug Transport Across Blood-Ocular Barriers and Pharmacokinetics 2016 , 37-63 | | 3 |
| 13 | A technical approach to the evaluation of glucose oxidation: implications for diabetic cataract. <i>Ophthalmic Research</i> , 1996 , 28, 275-83 | 2.9 | 3 |
| 12 | Blueberry Consumption Challenges Hepatic Mitochondrial Bioenergetics and Elicits Transcriptomics Reprogramming in Healthy Wistar Rats. <i>Pharmaceutics</i> , 2020 , 12, | 6.4 | 3 |
| 11 | Blueberry Counteracts Prediabetes in a Hypercaloric Diet-Induced Rat Model and Rescues Hepatic Mitochondrial Bioenergetics.. <i>Nutrients</i> , 2021 , 13, | 6.7 | 2 |

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|----|---|-----|---|
| 10 | mTOR in Diabetic Nephropathy and Retinopathy 2016 , 379-393 | | 2 |
| 9 | Molecular Targeted Photodynamic Therapy for Cancer 2016 , 127-169 | | 2 |
| 8 | Highly Efficient Singlet Oxygen Generators Based on Ruthenium Phthalocyanines: Synthesis, Characterization and in vitro Evaluation for Photodynamic Therapy. <i>Chemistry - A European Journal</i> , 2020 , 26, 1697 | 4.8 | 1 |
| 7 | VEGF/Ang-2 imbalance: the crosslinking between methylglyoxal and vascular dysfunction in diabetic retinopathy. <i>Acta Ophthalmologica</i> , 86, 0-0 | 3.7 | 1 |
| 6 | The role of HIF-1 alfa in apoptosis and proliferative retinopathy. <i>Acta Ophthalmologica</i> , 2009 , 87, 0-0 | 3.7 | 1 |
| 5 | - Considerations for Development of Ophthalmic Nanotechnology-Based Drugs 2012 , 112-127 | | 1 |
| 4 | Encapsulation of glycosylated porphyrins in silica nanoparticles to enhance the efficacy of cancer photodynamic therapy. <i>Materials Advances</i> , 2021 , 2, 1613-1620 | 3.3 | 0 |
| 3 | Improvement of Glycaemia and Endothelial Function by a New Low-Dose Curcuminoid in an Animal Model of Type 2 Diabetes. <i>International Journal of Molecular Sciences</i> , 2022 , 23, 5652 | 6.3 | 0 |
| 2 | The ubiquitin proteasome pathway - Repair or degradation of damaged proteins. <i>Acta Ophthalmologica</i> , 2009 , 87, 0-0 | 3.7 | |
| 1 | Proteasome dysfunction in retinal pigment epithelium during aging contributes to the pathogenesis of Age-Macular related Degeneration. <i>Acta Ophthalmologica</i> , 2013 , 91, 0-0 | 3.7 | |