

GunÅ£rs Ya Duburs

List of Publications by Year in descending order

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| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Dihydropyridine Derivatives as Cell Growth Modulators In Vitro. <i>Oxidative Medicine and Cellular Longevity</i> , 2017, 2017, 1-15. | 4.0 | 277 |
| 2 | Synthesis of 1,4-Dihydropyridines by Cyclocondensation Reactions. <i>Heterocycles</i> , 1988, 27, 269. | 0.7 | 258 |
| 3 | Natural and synthetic antioxidants: An updated overview. <i>Free Radical Research</i> , 2010, 44, 1216-1262. | 3.3 | 229 |
| 4 | Reactions of 1,4-Dihydropyridines. <i>Heterocycles</i> , 1988, 27, 291. | 0.7 | 97 |
| 5 | Derivatives of 3-cyano-6-phenyl-4-(3'-pyridyl)-pyridine-2(1H)-thione and their neurotropic activity. <i>European Journal of Medicinal Chemistry</i> , 1999, 34, 301-310. | 5.5 | 87 |
| 6 | Novel cationic amphiphilic 1,4-dihydropyridine derivatives for DNA delivery. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2000, 1509, 451-466. | 2.6 | 78 |
| 7 | 1,4-Dihydropyridine Derivatives: Dihydronicotinamide Analogues as Model Compounds Targeting Oxidative Stress. <i>Oxidative Medicine and Cellular Longevity</i> , 2016, 2016, 1-35. | 4.0 | 62 |
| 8 | Effect of Acyl Chain Length and Branching on the Enantioselectivity of Candidarugosalipase in the Kinetic Resolution of 4-(2-Difluoromethoxyphenyl)-Substituted 1,4-Dihydropyridine 3,5-Diesters. <i>Journal of Organic Chemistry</i> , 2002, 67, 401-410. | 3.2 | 39 |
| 9 | Acute effect of antidiabetic 1,4-dihydropyridine compound cerebrocrast on cardiac function and glucose metabolism in the isolated, perfused normal rat heart. <i>Cell Biochemistry and Function</i> , 2008, 26, 238-245. | 2.9 | 38 |
| 10 | Thieno[2,3-b]pyridines as a new class of multidrug resistance (MDR) modulators. <i>Bioorganic and Medicinal Chemistry</i> , 2014, 22, 5860-5870. | 3.0 | 34 |
| 11 | Effects of 1,4-dihydropyridine derivatives (cerebrocrast, gammapyrone, glutapyrone, and diethone) on mitochondrial bioenergetics and oxidative stress: a comparative study. <i>Mitochondrion</i> , 2003, 3, 47-59. | 3.4 | 33 |
| 12 | A 1,4-dihydropyridine derivative reduces DNA damage and stimulates DNA repair in human cells in vitro. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2005, 587, 52-58. | 1.7 | 30 |
| 13 | Atypical neuromodulatory profile of glutapyrone, a representative of a novel 'class' of amino acid-containing dipeptide-mimicking 1,4-dihydropyridine (DHP) compounds: in vitro and in vivo studies. <i>European Neuropsychopharmacology</i> , 1998, 8, 329-347. | 0.7 | 29 |
| 14 | Efficient regioselective one-pot synthesis of partially hydrogenated thiazolo[3,2-a]pyridines. <i>Tetrahedron</i> , 1998, 54, 9161-9168. | 1.9 | 27 |
| 15 | Changes in poly(ADP-ribose) level modulate the kinetics of DNA strand break rejoining. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2008, 637, 173-181. | 1.0 | 27 |
| 16 | Use of pyridinium ionic liquids as catalysts for the synthesis of 3,5-bis(dodecyloxycarbonyl)-1,4-dihydropyridine derivative. <i>Open Chemistry</i> , 2011, 9, 143-148. | 1.9 | 27 |
| 17 | Intramolecular C-H...O Hydrogen Bonding in 1,4-Dihydropyridine Derivatives. <i>Molecules</i> , 2011, 16, 8041-8052. | 3.8 | 24 |
| 18 | Gene delivery agents possessing antiradical activity: self-assembling cationic amphiphilic 1,4-dihydropyridine derivatives. <i>New Journal of Chemistry</i> , 2013, 37, 3062. | 2.8 | 24 |

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|----|--|-----|-----------|
| 19 | Design, synthesis and 3D-QSAR studies of novel 1,4-dihydropyridines as TGF β ² /Smad inhibitors. <i>European Journal of Medicinal Chemistry</i> , 2015, 95, 249-266. | 5.5 | 23 |
| 20 | Anti-inflammatory effects of cerebrocrast in a model of rat paw edema and on mononuclear THP-1 cells. <i>European Journal of Pharmacology</i> , 2002, 441, 203-208. | 3.5 | 21 |
| 21 | Antioxidative 1,4-Dihydropyridine Derivatives Modulate Oxidative Stress and Growth of Human Osteoblast-Like Cells In Vitro. <i>Antioxidants</i> , 2018, 7, 123. | 5.1 | 21 |
| 22 | Effect of cerebrocrast on the lymphocyte blast transformation activity in normal and streptozotocin-induced diabetic rats. , 1999, 17, 89-96. | | 19 |
| 23 | Candida antarctica lipase-catalyzed hydrolysis of 4-substituted bis(ethoxycarbonylmethyl) 1,4-dihydropyridine-3,5-dicarboxylates as the key step in the synthesis of optically active dihydropyridines. <i>Tetrahedron: Asymmetry</i> , 2000, 11, 4559-4569. | 1.8 | 19 |
| 24 | Comparative effects of three 1,4-dihydropyridine derivatives [OSI-1210, OSI-1211 (etaftoron), and OSI-3802] on rat liver mitochondrial bioenergetics and on the physical properties of membrane lipid bilayers: Relevance to the length of the alkoxy chain in positions 3 and 5 of the DHP ring. <i>Chemico-Biological Interactions</i> , 2008, 173, 195-204. | 4.0 | 19 |
| 25 | Glibenclamide interferes with mitochondrial bioenergetics by inducing changes on membrane ion permeability. <i>Journal of Biochemical and Molecular Toxicology</i> , 2004, 18, 162-169. | 3.0 | 18 |
| 26 | Distinct effects of atypical 1,4-dihydropyridines on 1-methyl-4-phenylpyridinium-induced toxicity. <i>Cell Biochemistry and Function</i> , 2007, 25, 15-21. | 2.9 | 18 |
| 27 | Self-Renewal Signalling in Presenescent Tetraploid IMR90 Cells. <i>Journal of Aging Research</i> , 2011, 2011, 1-14. | 0.9 | 18 |
| 28 | Protective effect of cerebrocrast on rat brain ischaemia induced by occlusion of both common carotid arteries. <i>Cell Biochemistry and Function</i> , 2007, 25, 203-210. | 2.9 | 17 |
| 29 | Derivatives of 1,4-dihydropyridines as modulators of ascorbate-induced lipid peroxidation and high-amplitude swelling of mitochondria, caused by ascorbate, sodium linoleate and sodium pyrophosphate. , 1999, 17, 237-252. | | 16 |
| 30 | Oxidation of cationic 1,4-dihydropyridine derivatives as model compounds for putative gene delivery agents. <i>Tetrahedron</i> , 2009, 65, 8344-8349. | 1.9 | 16 |
| 31 | Effect of new and known 1,4-dihydropyridine derivatives on blood glucose levels in normal and streptozotocin-induced diabetic rats. <i>Cell Biochemistry and Function</i> , 2004, 22, 219-224. | 2.9 | 15 |
| 32 | Modulation of cellular defense processes in human lymphocytes in vitro by a 1,4-dihydropyridine derivative. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2009, 679, 33-38. | 1.7 | 14 |
| 33 | An efficient chemoenzymatic approach to enantiomerically pure 4-[2-(difluoromethoxy)phenyl] substituted 1,4-dihydropyridine-3,5-dicarboxylates. <i>Tetrahedron: Asymmetry</i> , 2001, 12, 3251-3256. | 1.8 | 13 |
| 34 | Cerebrocrast promotes the cotransport of H ⁺ and Cl ⁻ in rat liver mitochondria. <i>Mitochondrion</i> , 2005, 5, 341-351. | 3.4 | 13 |
| 35 | Benzo[b]thiophen-3(2H)-one 1,1-dioxide a versatile reagent in the synthesis of spiroheterocycles. <i>Tetrahedron</i> , 2008, 64, 9947-9952. | 1.9 | 13 |
| 36 | Distinct Influence of Atypical 1,4-Dihydropyridine Compounds in Azidothymidine-Induced Neuro- and Cardiotoxicity in Mice <i>Ex Vivo</i> . <i>Basic and Clinical Pharmacology and Toxicology</i> , 2008, 103, 401-406. | 2.5 | 12 |

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|----|--|-----|-----------|
| 37 | 1,4-dihydropyridine derivatives without Ca ²⁺ -antagonist activity up-regulate <i>pSma6</i> mRNA expression in kidneys of intact and diabetic rats. <i>Cell Biochemistry and Function</i> , 2016, 34, 3-6. | 2.9 | 12 |
| 38 | Metal ions modify DNA-protecting and mutagen-scavenging capacities of the AV-153 1,4-dihydropyridine. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2019, 845, 403077. | 1.7 | 12 |
| 39 | Screening of SIRT6 inhibitors and activators: A novel activator has an impact on breast cancer cells. <i>Biomedicine and Pharmacotherapy</i> , 2021, 138, 111452. | 5.6 | 12 |
| 40 | Reversal of multidrug resistance in murine lymphoma cells by amphiphilic dihydropyridine antioxidant derivative. <i>Anticancer Research</i> , 2010, 30, 4063-9. | 1.1 | 12 |
| 41 | Modification of swelling-contraction-aggregation processes in rat muscle mitochondria by the 1,4-dihydropyridines, cerebrocrast and glutapyrone, themselves and in the presence of azidothymidine. , 1997, 15, 211-220. | | 11 |
| 42 | Enantioselective lipase-catalysed kinetic resolution of acyloxymethyl and ethoxycarbonylmethyl esters of 1,4-dihydroisonicotinic acid derivatives. <i>Tetrahedron: Asymmetry</i> , 2002, 13, 2389-2397. | 1.8 | 11 |
| 43 | Anti-Neurotoxic Effects of Tauopyrone, a Taurine Analogue. , 2006, 583, 499-508. | | 11 |
| 44 | Synthesis of 4H-Pyran Derivatives Under Solvent-Free and Grinding Conditions. <i>Synthetic Communications</i> , 2013, 43, 465-475. | 2.1 | 11 |
| 45 | Screening Pyridine Derivatives against Human Hydrogen Sulfide-synthesizing Enzymes by Orthogonal Methods. <i>Scientific Reports</i> , 2019, 9, 684. | 3.3 | 11 |
| 46 | Effects of some 1,4-dihydropyridine Ca antagonists on the blast transformation of rat spleen lymphocytes. , 1999, 17, 97-105. | | 10 |
| 47 | Unusual cyclization of 1-thianaphthenone-3-dioxide-1,1 to a 1,5-diazabicyclo[3.3.1]nonane a heterocyclic analogue of a Tröger's base. <i>Tetrahedron Letters</i> , 2001, 42, 4239-4241. | 1.4 | 9 |
| 48 | Search for Stroke-Protecting Agents in Endothelin-1-Induced Ischemic Stroke Model in Rats. <i>Medicina (Lithuania)</i> , 2012, 48, 77. | 2.0 | 9 |
| 49 | Synthesis and evaluation of (E)-2-(acrylamido)cyclohex-1-enecarboxylic acid derivatives as HCA1, HCA2, and HCA3 receptor agonists. <i>Bioorganic and Medicinal Chemistry</i> , 2014, 22, 3654-3669. | 3.0 | 9 |
| 50 | Modifications of expression of genes and proteins involved in DNA repair and nitric oxide metabolism by carbatonides [disodium-2,6-dimethyl-1,4-dihydropyridine-3,5-bis(carbonyloxyacetate) derivatives] in intact and diabetic rats. <i>Arhiv Za Higijenu Rada I Toksikologiju</i> , 2017, 68, 212-227. | 0.7 | 9 |
| 51 | The dihydropyridine analogue cerebrocrast blocks both T-type and L-type calcium currents. <i>Canadian Journal of Physiology and Pharmacology</i> , 2009, 87, 923-932. | 1.4 | 8 |
| 52 | Comparative study of taurine and tauopyrone: GABA receptor binding, mitochondrial processes and behaviour. <i>Journal of Pharmacy and Pharmacology</i> , 2011, 63, 230-237. | 2.4 | 8 |
| 53 | Pleiotropic Properties of Amphiphilic Dihydropyridines, Dihydropyridones, and Aminovinylcarbonyl Compounds. <i>Oxidative Medicine and Cellular Longevity</i> , 2020, 2020, 1-17. | 4.0 | 8 |
| 54 | Effect of cerebrocrast on the function of human platelets and release of the arachidonic acid from plasma membrane. <i>Cell Biochemistry and Function</i> , 2002, 20, 177-181. | 2.9 | 7 |

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|----|--|-----|-----------|
| 55 | Effects of 5-acetyl(carbamoyl)-6-methylsulfanyl-1,4-dihydropyridine-5-carbonitriles on rat liver mitochondrial function. <i>Toxicology in Vitro</i> , 2009, 23, 1333-1341. | 2.4 | 7 |
| 56 | Direct Aminolysis of Ethoxycarbonylmethyl 1,4-Dihydropyridine-3-carboxylates. <i>Molecules</i> , 2015, 20, 20341-20354. | 3.8 | 7 |
| 57 | The effect of some 1,4-dihydropyridine and 1,4-dihydroindenol[1,2-b]pyridine derivatives on glutathione S-transferase activity in vitro. <i>Biochemical Pharmacology</i> , 1993, 46, 773-775. | 4.4 | 6 |
| 58 | Synthesis and self-assembly of novel fluorous cationic amphiphiles with a 3,4-dihydro-2(1H)-pyridone spacer. <i>Journal of Fluorine Chemistry</i> , 2011, 132, 414-419. | 1.7 | 6 |
| 59 | Experimental and Theoretical Studies of Bromination of Diethyl 2,4,6-trimethyl-1,4-dihydropyridine-3,5-dicarboxylate. <i>Heteroatom Chemistry</i> , 2014, 25, 114-126. | 0.7 | 6 |
| 60 | 1,2-Dimyrystoyl-sn-glycero-3-phosphocholine (DMPC) increases Carmofur stability and in vitro antiproliferative effect. <i>Toxicology Reports</i> , 2015, 2, 377-383. | 3.3 | 6 |
| 61 | Antifungal activity of styrylpyridinium compounds against <i>Candida albicans</i> . <i>Chemical Biology and Drug Design</i> , 2021, 97, 253-265. | 3.2 | 6 |
| 62 | Study of the interaction of 1,4-dihydropyridine derivatives with glucocorticoid hormone receptors from the rat liver. <i>Pharmacological Reports</i> , 2006, 58, 551-8. | 3.3 | 6 |
| 63 | Effect of cerebrocrast on body and organ weights, food and water intake, and urine output of normal rats. <i>Cell Biochemistry and Function</i> , 2008, 26, 908-915. | 2.9 | 5 |
| 64 | Effective Method of Lipase-Catalyzed Enantioresolution of 6-Alkylsulfanyl-1,4-dihydropyridines. <i>Heterocycles</i> , 2014, 89, 43. | 0.7 | 5 |
| 65 | Synthesis of 5-carboxy-6-methyl-3,4-dihydro-2(1H)-pyridone derivatives and their electrochemical oxidation to 2-pyridones. <i>Chemical Physics Letters</i> , 2016, 649, 84-87. | 2.6 | 5 |
| 66 | Spectroscopic and electrochemical study of interactions between DNA and different salts of 1,4-dihydropyridine AV-153. <i>PeerJ</i> , 2020, 8, e10061. | 2.0 | 5 |
| 67 | Design and Synthesis of Hepatitis B Virus (HBV) Capsid Assembly Modulators and Evaluation of Their Activity in Mammalian Cell Model. <i>Pharmaceuticals</i> , 2022, 15, 773. | 3.8 | 5 |
| 68 | Electrochemical oxidation of hydrogenated indolizines and their precursors in chemical synthesis of quaternized pyridyldihydropyridines. <i>Electrochimica Acta</i> , 1997, 42, 3553-3564. | 5.2 | 4 |
| 69 | Rearrangement and Cyclization of β -Mesyloxy Ketones. Synthesis of β -Sultones. <i>Bulletin Des Sociétés Chimiques Belges</i> , 1994, 103, 299-302. | 0.0 | 4 |
| 70 | Chemistry and personalized medicine – the research and development future of Europe. <i>Croatian Medical Journal</i> , 2012, 53, 291-293. | 0.7 | 4 |
| 71 | Cyclisation of benzo[b]thiophen-3(2H)-one 1,1-dioxide and 1,3-indanedione into novel methylene bridged polycyclic diazocines and their rearrangement into spirocyclic compounds. <i>Tetrahedron Letters</i> , 2014, 55, 4601-4604. | 1.4 | 4 |
| 72 | Synthesis of 6-alkylsulfanyl-1,4-dihydropyridines as potential multidrug resistance modulators. <i>Heterocyclic Communications</i> , 2016, 22, 157-160. | 1.2 | 4 |

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| 73 | Synthesis and evaluation of (E)-2-(5-phenylpent-2-en-4-ynamido)cyclohex-1-ene-1-carboxylate derivatives as HCA2 receptor agonists. <i>Bioorganic and Medicinal Chemistry</i> , 2017, 25, 4314-4329. | 3.0 | 4 |
| 74 | 1,4-Dihydropyridines as Tools for Mitochondrial Medicine Against Oxidative Stress and Associated Metabolic Disorders. <i>Current Organic Chemistry</i> , 2017, 21, . | 1.6 | 4 |
| 75 | The Specificity and Broad Multitarget Properties of Ligands for the Free Fatty Acid Receptors FFA3/GPR41 and FFA2/GPR43 and the Related Hydroxycarboxylic Acid Receptor HCA2/GPR109A. <i>Pharmaceuticals</i> , 2021, 14, 987. | 3.8 | 4 |
| 76 | Crystal structure and metabolic activity of 4-(thien-2-yl)-2-methyl-5-oxo-1,4,5,6,7,8-hexahydroquinoline-3-carboxylic acid ethoxycarbonylphenylmethylester. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2018, 74, 1577-1579. | 0.5 | 4 |
| 77 | 1,4-dihydropyridine derivatives increase mRNA expression of <i>Psma3</i> , <i>Psmb5</i> , and <i>Psmc6</i> in rats. <i>Arhiv Za Higijenu Rada I Toksikologiju</i> , 2021, 72, 148-156. | 0.7 | 3 |
| 78 | Interaction of Styrylpyridinium Compound with Pathogenic <i>Candida albicans</i> Yeasts and Human Embryonic Kidney HEK-293 Cells. <i>Microorganisms</i> , 2021, 9, 48. | 3.6 | 3 |
| 79 | Growth modulation of human cells in vitro by mild oxidative stress and 1,4-dihydropyridine derivative antioxidants. <i>Collegium Antropologicum</i> , 2011, 35, 137-41. | 0.2 | 3 |
| 80 | Methyl 6-oxo-4-phenyl-2-[(Z)-2-(pyridin-2-yl)ethenyl]-1,4,5,6-tetrahydropyridine-3-carboxylate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2012, 68, o3489-o3489. | 0.2 | 2 |
| 81 | Synthesis of polysubstituted pyridines as potential multidrug resistance modulators. <i>Heterocyclic Communications</i> , 2015, 21, . | 1.2 | 2 |
| 82 | Data for the cytotoxicity, self-assembling properties and synthesis of 4-pyridinium-1,4-dihydropyridines. <i>Data in Brief</i> , 2020, 33, 106545. | 1.0 | 2 |
| 83 | 4-Pyridinio-1,4-Dihydropyridines as Calcium Ion Transport Modulators: Antagonist, Agonist, and Dual Action. <i>Oxidative Medicine and Cellular Longevity</i> , 2020, 2020, 1-14. | 4.0 | 2 |
| 84 | Synthesis and isomerization of 1H-4,4a,5,9b-tetrahydroindeno- [1,2-b]pyridines. <i>Tetrahedron</i> , 1991, 47, 7429-7436. | 1.9 | 1 |
| 85 | SYNTHESIS AND PROPERTIES OF 4,5-trans-4-ARYL-3-CYANO-6-HYDROXY-6-METHYL-5-PYRIDINIO-1,4,5,6-TETRAHYDROPYRIDINE-2-THIOLATES. <i>Heterocyclic Communications</i> , 2000, 6, . | 1.2 | 1 |