ElÅ¼bieta PÄkala

List of Publications by Year
in descending order

100 papers	1,774 citations	304701 22 h-index	361001 35 g-index
103 all docs	103 docs citations	103 times ranked	2399 citing authors

#	Article	IF	Citations
1	Antimutagenic compounds and their possible mechanisms of action. Journal of Applied Genetics, 2014, 55, 273-285.	1.9	144
2	Fibroblast-to-myofibroblast transition in bronchial asthma. Cellular and Molecular Life Sciences, 2018, 75, 3943-3961.	5.4	95
3	Cinnamic acid derivatives in cosmetics: current use and future prospects. International Journal of Cosmetic Science, 2018, 40, 356-366.	2.6	91
4	Piperlongumine (piplartine) as a lead compound for anticancer agents â€“ Synthesis and properties of analogues: A mini-review. European Journal of Medicinal Chemistry, 2018, 156, 13-20.	5.5	88
5	Metabolic stability and its role in the discovery of new chemical entities. Acta Pharmaceutica, 2019, 69, 345-361.	2.0	60
6	RNAi in Clinical Studies. Current Medicinal Chemistry, 2013, 20, 1801-1816.	2.4	56
7	Metabolic carbonyl reduction of anthracyclines â€" role in cardiotoxicity and cancer resistance. Reducing enzymes as putative targets for novel cardioprotective and chemosensitizing agents. Investigational New Drugs, 2017, 35, 375-385.	2.6	46
8	Imidazo-thiazine, -diazinone and -diazepinone derivatives. Synthesis, structure and benzodiazepine receptor binding. European Journal of Medicinal Chemistry, 2001, 36, 407-419.	5.5	38
9	Novel non-sulfonamide 5-HT 6 receptor partial inverse agonist in a group of imidazo[4,5- b]pyridines with cognition enhancing properties. European Journal of Medicinal Chemistry, 2018, 144, 716-729.	5.5	37
10	Synthesis and biological activity of tricyclic aryloimidazo-, pyrimido-, and diazepinopurinediones. Bioorganic and Medicinal Chemistry, 2006, 14, 7258-7281.	3.0	36
11	Autophagy modulating agents as chemosensitizers for cisplatin therapy in cancer. Investigational New Drugs, 2021, 39, 538-563.	2.6	36
12	Anticonvulsant activity of some xanthone derivatives. Bioorganic and Medicinal Chemistry, 2008, 16, 7234-7244.	3.0	34
13	Design, synthesis and biological activity of new amides derived from 3-methyl-3-phenyl-2,5-dioxo-pyrrolidin-1-yl-acetic acid. European Journal of Medicinal Chemistry, 2015, 102, 14-25.	5.5	33
14	Synergistic anticancer activity of doxorubicin and piperlongumine on DU-145 prostate cancer cells â€" The involvement of carbonyl reductase 1 inhibition. Chemico-Biological Interactions, 2019, 300, 40-48.	4.0	30
15	Cunninghamella Biotransformation - Similarities to Human Drug Metabolism and Its Relevance for the Drug Discovery Process. Current Drug Metabolism, 2016, 17, 107-117.	1.2	30
16	Search for new tools to combat Gram-negative resistant bacteria among amine derivatives of 5-arylidenehydantoin. Bioorganic and Medicinal Chemistry, 2013, 21, 135-145.	3.0	29
17	Synthesis and biological properties of new N-Mannich bases derived from 3-methyl-3-phenyl- and 3,3-dimethyl-succinimides. Part V. European Journal of Medicinal Chemistry, 2013, 66, 12-21.	5.5	28
18	A Novel, Pan-PDE Inhibitor Exerts Anti-Fibrotic Effects in Human Lung Fibroblasts via Inhibition of TGF-Î² Signaling and Activation of cAMP/PKA Signaling. International Journal of Molecular Sciences, 2020, 21, 4008.	4.1	28

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19	Design, synthesis, and biological evaluation of fluorinated imidazo[1,2- a]pyridine derivatives with potential antipsychotic activity. European Journal of Medicinal Chemistry, 2016, 124, 456-467.	5.5	27
20	Impact of the aryl substituent kind and distance from pyrimido[2,1-f]purindiones on the adenosine receptor selectivity and antagonistic properties. European Journal of Medicinal Chemistry, 2003, 38, 397-402.	5.5	26
21	Dual 5-HT₆ and D₃ Receptor Antagonists in a Group of 1H-Pyrrolo[3,2-c]quinolines with Neuroprotective and Procognitive Activity. ACS Chemical Neuroscience, 2019, 10, 3183-3196.	3.5	24
22	Synthesis, structure and antiarrhythmic properties evaluation of new basic derivatives of 5,5-diphenylhydantoin. European Journal of Medicinal Chemistry, 2003, 38, 555-566.	5.5	23
23	Tricyclic oxazolo[2,3-f]purinediones: potency as adenosine receptor ligands and anticonvulsants. Bioorganic and Medicinal Chemistry, 2004, 12, 4895-4908.	3.0	23
24	Two new triterpenoid saponins from the leaves of Impatiens parviflora DC. and their cytotoxic activity. Industrial Crops and Products, 2017, 96, 71-79.	5.2	22
25	Synthesis and biological evaluation of 2-fluoro and 3-trifluoromethyl-phenyl-piperazinylalkyl derivatives of 1H-imidazo[2,1-f]purine-2,4(3H,8H)-dione as potential antidepressant agents. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 10-24.	5.2	21
26	Design, synthesis, and anticonvulsant activity of some derivatives of xanthone with aminoalkanol moieties. Chemical Biology and Drug Design, 2017, 89, 339-352.	3.2	21
27	In vitro mutagenic, antimutagenic, and antioxidant activities evaluation and biotransformation of some bioactive 4â€substituted 1â€(2â€methoxyphenyl)piperazine derivatives. Journal of Biochemical and Molecular Toxicology, 2016, 30, 593-601.	3.0	20
28	Evaluation of anticonvulsant and antinociceptive properties of new N-Mannich bases derived from pyrrolidine-2,5-dione and 3-methylpyrrolidine-2,5-dione. Naunyn-Schmiedeberg's Archives of Pharmacology, 2016, 389, 339-348.	3.0	20
29	Imidazo[2,1-b]thiazepines: synthesis, structure and evaluation of benzodiazepine receptor binding. European Journal of Medicinal Chemistry, 2004, 39, 205-218.	5.5	19
30	Structure-anticonvulsant activity studies in the group of (E)-N-cinnamoyl aminoalkanols derivatives monosubstituted in phenyl ring with 4-Cl, 4-CH3 or 2-CH3. Bioorganic and Medicinal Chemistry, 2017, 25, 471-482.	3.0	19
31	Saponins as chemosensitizing substances that improve effectiveness and selectivity of anticancer drugâ€"Minireview of in vitro studies. Phytotherapy Research, 2019, 33, 2141-2151.	5.8	19
32	Synthesis and anticonvulsant activity of trans- and cis-2-(2,6-dimethylphenoxy)-N-(2- or) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 227 Td (4 6927-6934.	3.0	18
33	Medicinal potential of mycelium and fruiting bodies of an arboreal mushroom Fomitopsis officinalis in therapy of lifestyle diseases. Scientific Reports, 2020, 10, 20081.	3.3	17
34	Synthesis, structureâ€"activity relationship of some new anti-arrhythmic 5-arylidene imidazolidine-2,4-dione derivatives. European Journal of Medicinal Chemistry, 2005, 40, 259-269.	5.5	16
35	Evaluation of mutagenic and antimutagenic properties of new derivatives of pyrrolidine-2,5-dione with anti-epileptic activity, by use of the Vibrio harveyi mutagenicity test. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2013, 758, 18-22.	1.7	16
36	Anticonvulsant activity, crystal structures, and preliminary safety evaluation of N-trans-cinnamoyl derivatives of selected (un)modified aminoalkanols. European Journal of Medicinal Chemistry, 2016, 107, 26-37.	5.5	16

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37	N-Alkylated arylsulfonamides of (aryloxy)ethyl piperidines: 5-HT7 receptor selectivity versus multireceptor profile. Bioorganic and Medicinal Chemistry, 2016, 24, 130-139.	3.0	16
38	Usnic acid reactive metabolites formation in human, rat, and mice microsomes. Implication for hepatotoxicity. Food and Chemical Toxicology, 2018, 120, 112-118.	3.6	16
39	Enantioselective reduction of pentoxifylline to lisofylline using whole-cell Lactobacillus kefiri biotransformation. Biotechnology Journal, 2007, 2, 492-496.	3.5	15
40	Analgesic, antiallodynic, and anticonvulsant activity of novel hybrid molecules derived from N-benzyl-2-(2,5-dioxopyrrolidin-1-yl)propanamide and 2-(2,5-dioxopyrrolidin-1-yl)butanamide in animal models of pain and epilepsy. Naunyn-Schmiedeberg's Archives of Pharmacology, 2017, 390, 567-579.	3.0	15
41	3-Aminomethyl Derivatives of 2-Phenylimidazo[1,2-a]-pyridine as Positive Allosteric Modulators of GABA_A Receptor with Potential Antipsychotic Activity. ACS Chemical Neuroscience, 2017, 8, 1291-1298.	3.5	15
42	A dual-acting 5-HT6 receptor inverse agonist/MAO-B inhibitor displays glioprotective and pro-cognitive properties. European Journal of Medicinal Chemistry, 2020, 208, 112765.	5.5	15
43	In vitro effect of pentoxifylline and lisofylline on deformability and aggregation of red blood cells from healthy subjects and patients with chronic venous disease.. Acta Biochimica Polonica, 2013, 60, .	0.5	15
44	Estimating the lipophilicity of a number of 2â€aminoâ€1â€cyclohexanol derivatives exhibiting anticonvulsant activity. Biomedical Chromatography, 2009, 23, 543-550.	1.7	14
45	Cinnamic acid derivatives as chemosensitising agents against DOX-treated lung cancer cells â€“ Involvement of carbonyl reductase 1. European Journal of Pharmaceutical Sciences, 2020, 154, 105511.	4.0	14
46	Imidazopyridine-Based 5-HT₆ Receptor Neutral Antagonists: Impact of N¹-Benzyl and N¹-Phenylsulfonyl Fragments on Different Receptor Conformational States. Journal of Medicinal Chemistry, 2021, 64, 1180-1196.	6.4	14
47	Cunninghamella as a Microbiological Model for Metabolism of Histamine H3 Receptor Antagonist 1-[3-(4-tert-Butylphenoxy)propyl]piperidine. Applied Biochemistry and Biotechnology, 2012, 168, 1584-1593.	2.9	13
48	Antiallodynic and antihyperalgesic activity of new 3,3-diphenyl-propionamides with anticonvulsant activity in models of pain in mice. European Journal of Pharmacology, 2018, 821, 39-48.	3.5	13
49	Novel phosphodiesterases inhibitors from the group of purine-2,6-dione derivatives as potent modulators of airway smooth muscle cell remodelling. European Journal of Pharmacology, 2019, 865, 172779.	3.5	13
50	Cinnamic Acid Derivatives as Cardioprotective Agents against Oxidative and Structural Damage Induced by Doxorubicin. International Journal of Molecular Sciences, 2021, 22, 6217.	4.1	13
51	Synergistic Cytotoxic and Anti-invasive Effects of Mitoxantrone and Triterpene Saponins from Lysimachia ciliata on Human Prostate Cancer Cells. Planta Medica, 2016, 82, 1546-1552.	1.3	12
52	The impact of ZnO and TiO2 on the stability of clotrimazole under UVA irradiation: Identification of photocatalytic degradation products and in vitro cytotoxicity assessment. Journal of Pharmaceutical and Biomedical Analysis, 2017, 145, 283-292.	2.8	12
53	A Comparative Survey of Anti-Melanoma and Anti-Inflammatory Potential of Usnic Acid Enantiomersâ€”A Comprehensive In Vitro Approach. Pharmaceuticals, 2021, 14, 945.	3.8	11
54	Synthesis and in vitro evaluation of anti-inflammatory, antioxidant, and anti-fibrotic effects of new 8-aminopurine-2,6-dione-based phosphodiesterase inhibitors as promising anti-asthmatic agents. Bioorganic Chemistry, 2021, 117, 105409.	4.1	11

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55	Anticancer half-sandwich Ir(<scp>iii</scp>) complex and its interaction with various biomolecules and their mixtures â€“ a case study with ascorbic acid. Inorganic Chemistry Frontiers, 2022, 9, 3758-3770.	6.0	11
56	Design, synthesis and anticonvulsant-analgesic activity of new N-[(phenoxy)alkyl]- and N-[(phenoxy)ethoxyethyl]aminoalkanols. MedChemComm, 2017, 8, 220-238.	3.4	10
57	In Vitro Biotransformation, Safety, and Chemopreventive Action of Novel 8-Methoxy-Purine-2,6-Dione Derivatives. Applied Biochemistry and Biotechnology, 2018, 184, 124-139.	2.9	10
58	Synthesis, Anticonvulsant, and Antinociceptive Activity of New 3-(2-Chlorophenyl)- and 3-(3-Chlorophenyl)-2,5-dioxo-pyrrolidin-1-yl-acetamides. Molecules, 2021, 26, 1564.	3.8	10
59	Pentoxifylline and its active metabolite lisofylline attenuate transforming growth factor Î²1-induced asthmatic bronchial fibroblast-to-myofibroblast transition. Acta Biochimica Polonica, 2016, 63, 437-42.	0.5	9
60	(+)-Usnic Acid as a Promising Candidate for a Safe and Stable Topical Photoprotective Agent. Molecules, 2021, 26, 5224.	3.8	9
61	Synthesis, Anticonvulsant Activity and Metabolism of 4â€²-chlorâ€3â€²-methylphenoxyethylamine Derivatives of Transâ€2â€²-aminocyclohexanâ€1â€²-ol. Chirality, 2015, 27, 163-169.	2.6	8
62	Synthesis and anticonvulsant activity of phenoxyacetyl derivatives of amines, including aminoalkanols and amino acids. MedChemComm, 2018, 9, 1933-1948.	3.4	8
63	Discovery of Novel UV-Filters with Favorable Safety Profiles in the 5-Arylideneimidazolidine-2,4-dione Derivatives Group. Molecules, 2019, 24, 2321.	3.8	8
64	Novel multitarget 5-arylidenehydantoins with arylpiperazinealkyl fragment: Pharmacological evaluation and investigation of cytotoxicity and metabolic stability. Bioorganic and Medicinal Chemistry, 2019, 27, 4163-4173.	3.0	8
65	The study of the lipophilicity of some aminoalkanol derivatives with anticonvulsant activity. Biomedical Chromatography, 2010, 24, 1365-1372.	1.7	7
66	Synthesis and Determination of Lipophilicity, Anticonvulsant Activity, and Preliminary Safety of 3â€²-Substituted and 3â€²-Unsubstituted Nâ€²-[(4â€²-Arylpiperazinâ€1â€²-yl)alkyl]pyrrolidineâ€2,5â€²-dione Derivatives. ChemMedChem, 2017, 12, 1848-1856.	3.2	7
67	Biotransformation of 4â€²-fluoroâ€²-Nâ€²-(1â€²-{2â€²-[(propanâ€2â€²-yl)phenoxy]ethyl}â€²-8â€²-azabicyclo[3.2.1]octanâ€3â€²-yl)â€²-benzenesulfonamide, a novel potent 5â€²-HT₇ receptor antagonist with antidepressantâ€like and anxiolytic properties: In vitro and in silico approach. Journal of Biochemical and Molecular Toxicology, 2018, 32, e22048.	3.0	7
68	Anti-Helicobacter pylori activities of selected N-substituted cinnamamide derivatives evaluated on reference and clinical bacterial strains. Journal of Antibiotics, 2018, 71, 543-548.	2.0	7
69	Synthesis and activity of di- or trisubstituted N -(phenoxyalkyl)- or N -{2-[2-(phenoxy)ethoxy]ethyl}piperazine derivatives on the central nervous system. Bioorganic and Medicinal Chemistry Letters, 2018, 28, 2039-2049.	2.2	7
70	Alcohol Dehydrogenases as Tools for the Preparation of Enantiopure Metabolites of Drugs with Methyl Alkyl Ketone Moiety. Scientia Pharmaceutica, 2009, 77, 9-17.	2.0	6
71	New Arylpiperazinylalkyl Derivatives of 8â€²-Alkoxyâ€²-purineâ€2,6â€²-dione and Dihydro[1,3]oxazolo[2,3â€²-f]purinedione Targeting the Serotonin 5â€²-HT_{1A}/5â€²-HT_{2A}/5â€²-HT₇ and Dopamine D₂ Receptors. Archiv Der Pharmazie, 2015, 348, 242-253.	4.1	6
72	Photostability of Terbinafine Under UVA Irradiation: The Effect of UV Absorbers. Photochemistry and Photobiology, 2019, 95, 911-923.	2.5	6

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73	Impact of N-Alkylamino Substituents on Serotonin Receptor (5-HTR) Affinity and Phosphodiesterase 10A (PDE10A) Inhibition of Isoindole-1,3-dione Derivatives. Molecules, 2020, 25, 3868.	3.8	6
74	The Involvement of Xanthone and (E)-Cinnamoyl Chromophores for the Design and Synthesis of Novel Sunscreening Agents. International Journal of Molecular Sciences, 2021, 22, 34.	4.1	6
75	Microbial biotransformation of some novel hydantoin derivatives: Perspectives for bioremediation of potential sunscreen agents. Chemosphere, 2019, 234, 108-115.	8.2	5
76	Chemopreventive and Anticancer Activities of Bacopa Monnieri Extracted from Artificial Digestive Juices. Natural Product Communications, 2017, 12, 1934578X1701200.	0.5	4
77	Synthesis of N â€(phenoxyalkyl)â€ N â€[2â€[2â€(phenoxy)ethoxy]ethyl}â€or N â€(phenoxyacetyl)piperazine Derivatives and Their Activity Within the Central Nervous System. ChemistrySelect, 2019, 4, 9381-9391.	1.5	4
78	Analgesic and antiallodynic activity of novel anticonvulsant agents derived from 3-benzhydryl-pyrrolidine-2,5-dione in mouse models of nociceptive and neuropathic pain. European Journal of Pharmacology, 2020, 869, 172890.	3.5	4
79	Anticonvulsant and analgesic in neuropathic pain activity in a group of new aminoalkanol derivatives. Bioorganic and Medicinal Chemistry Letters, 2020, 30, 127325.	2.2	4
80	Design, Synthesis and Biological Activity of New Amides Derived from 3â€Benzhydryl and 3â€•sec â€Butylâ€2,5â€dioxoâ€pyrrolidinâ€1â€ylâ€acetic Acid. ChemMedChem, 2021, 16, 1619-1630.	3.2	4
81	Carbonyl reduction pathway in hepatic in vitro metabolism of anthracyclines: Impact of structure on biotransformation rate. Toxicology Letters, 2021, 342, 50-57.	0.8	4
82	Multidirectional anti-melanoma effect of galactolipids (MGDG-1 and DGDG-1) from Impatiens parviflora DC. and their synergy with doxorubicin. Toxicology in Vitro, 2021, 76, 105231.	2.4	4
83	Neuropathic pain-alleviating activity of novel 5-HT6 receptor inverse agonists derived from 2-aryl-1H-pyrrole-3-carboxamide. Bioorganic Chemistry, 2021, 115, 105218.	4.1	4
84	Pan-Phosphodiesterase Inhibitors Attenuate TGF-Î²-Induced Pro-Fibrotic Phenotype in Alveolar Epithelial Type II Cells by Downregulating Smad-2 Phosphorylation. Pharmaceuticals, 2022, 15, 423.	3.8	4
85	The Influence of some Xanthone Derivatives on the Activity of J-774A.1 Cells. Scientia Pharmaceutica, 2009, 77, .	2.0	3
86	Preliminary mutagenicity and genotoxicity evaluation of selected arylsulfonamide derivatives of (aryloxy)alkylamines with potential psychotropic properties. Journal of Applied Genetics, 2016, 57, 263-270.	1.9	3
87	S(+)-(2E)-N-(2-Hydroxypropyl)-3-Phenylprop-2-Enamide (KM-568): A Novel Cinnamamide Derivative with Anticonvulsant Activity in Animal Models of Seizures and Epilepsy. International Journal of Molecular Sciences, 2020, 21, 4372.	4.1	3
88	Cinnamamide derivatives with 4-hydroxypiperidine moiety enhance effect of doxorubicin to cancer cells and protect cardiomyocytes against drug-induced toxicity through CBR1 inhibition mechanism. Life Sciences, 2022, 305, 120777.	4.3	3
89	Preliminary Safety Assessment of New Azinesulfonamide Analogs of Aripiprazole using Prokaryotic Models. Advanced Pharmaceutical Bulletin, 2016, 6, 377-384.	1.4	2
90	Synthesis and Pharmacological Evaluation of Novel Silodosin-Based Arylsulfonamide Derivatives as Î±1A/Î±1D-Adrenergic Receptor Antagonist with Potential Uroselective Profile. Molecules, 2018, 23, 2175.	3.8	2

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91	Dinuclear half-sandwich Ir(III) complexes containing 4,4â€²-methylenedianiline-based ligands: Synthesis, characterization, cytotoxicity. Journal of Organometallic Chemistry, 2021, 938, 121748.	1.8	2
92	Photodegradation of Bexarotene and Its Implication for Cytotoxicity. Pharmaceutics, 2021, 13, 1220.	4.5	2
93	Evaluation of Two Novel Hydantoin Derivatives Using Reconstructed Human Skin Model EpiskinTM: Perspectives for Application as Potential Sunscreen Agents. Molecules, 2022, 27, 1850.	3.8	2
94	Similar Safety Profile of the Enantiomeric N-Aminoalkyl Derivatives of Trans-2-Aminocyclohexan-1-ol Demonstrating Anticonvulsant Activity. Molecules, 2019, 24, 2505.	3.8	1
95	Synthesis, in Silico and in Vitro Study on Phase I Metabolism of the Potent 5-Ht7/5-Ht1a/D2 Receptor Ligand: 4-Fluoron -(1-{2-[2-(Methylsulfanyl)- Phenoxy]Ethyl}Pyrrolidin-3-Yl) Benzene Sulfonamide. Pharmaceutical Chemistry Journal, 2019, 53, 713-719.	0.8	1
96	Simultaneous LC/ESIâ€MS Separation Method for the Enantioseparation of Some New Anticonvulsant Drugs. Chirality, 2014, 26, 144-149.	2.6	0
97	Effect of some newly synthesized xanthone and piperazine derivatives with cardiovascular activity on rheology of human erythrocytes in vitro. Clinical Hemorheology and Microcirculation, 2017, 67, 1-14.	1.7	0
98	The role of oxidative stress in the etiology of selected civilization diseases. Farmacja Polska, 2021, 77, 111-120.	0.1	0
99	Trans-cinnamaldehyde: biological properties and applications in cosmetology. Farmacja Polska, 2021, 76, 619-627.	0.1	0
100	The evolution of biologics in the context of oncological therapy. Oncology in Clinical Practice, 2020, 16, 14-21.	0.1	0