Tomasz Plech

List of Publications by Year
in descending order

87 papers	1,576 citations	304368 22 h-index	377514 34 g-index
92 all docs	92 docs citations	92 times ranked	1848 citing authors

#	Article	IF	Citations
1	Synthesis and antimicrobial activity of thiosemicarbazides, s-triazoles and their Mannich bases bearing 3-chlorophenyl moiety. European Journal of Medicinal Chemistry, 2011, 46, 241-248.	2.6	126
2	Synthesis and inÂvitro activity of 1,2,4-triazole-ciprofloxacin hybrids against drug-susceptible and drug-resistant bacteria. European Journal of Medicinal Chemistry, 2013, 60, 128-134.	2.6	89
3	Synthesis, characterization and preliminary anticonvulsant evaluation of some 4-alkyl-1,2,4-triazoles. European Journal of Medicinal Chemistry, 2013, 60, 208-215.	2.6	84
4	Kynurenic acid and cancer: facts and controversies. Cellular and Molecular Life Sciences, 2020, 77, 1531-1550.	2.4	65
5	Search for factors affecting antibacterial activity and toxicity of 1,2,4-triazole-ciprofloxacin hybrids. European Journal of Medicinal Chemistry, 2015, 97, 94-103.	2.6	60
6	Studies on the anticonvulsant activity of 4-alkyl-1,2,4-triazole-3-thiones and their effect on GABAergic system. European Journal of Medicinal Chemistry, 2014, 86, 690-699.	2.6	56
7	Development of the 1,2,4-triazole-based anticonvulsant drug candidates acting on the voltage-gated sodium channels. Insights from in-vivo, in-vitro, and in-silico studies. European Journal of Pharmaceutical Sciences, 2019, 129, 42-57.	1.9	52
8	A New Insight into the Potential Role of Tryptophan-Derived AhR Ligands in Skin Physiological and Pathological Processes. International Journal of Molecular Sciences, 2021, 22, 1104.	1.8	47
9	Studies on the Anticonvulsant Activity and Influence on GABA-ergic Neurotransmission of 1,2,4-Triazole-3-thione- Based Compounds. Molecules, 2014, 19, 11279-11299.	1.7	35
10	1,2,4-Triazole-based anticonvulsant agents with additional ROS scavenging activity are effective in a model of pharmacoresistant epilepsy. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 993-1002.	2.5	33
11	Thin-Layer Chromatography of Alkaloids on Cyanopropyl Bonded Stationary Phases. Part I. Journal of Chromatographic Science, 2007, 45, 447-454.	0.7	31
12	Studies on the synthesis and antibacterial activity of 3,6-disubstituted 1,2,4-triazolo[3,4-b]1,3,4-thiadiazoles. European Journal of Medicinal Chemistry, 2012, 47, 580-584.	2.6	28
13	Synthesis and Antibacterial Activity of New Thiazolidine-2,4-dione-Based Chlorophenylthiosemicarbazone Hybrids. Molecules, 2018, 23, 1023.	1.7	28
14	Determination of Selected Isoquinoline Alkaloids from Mahonia aquifolia; Meconopsis cambrica; Corydalis lutea; Dicentra spectabilis; Fumaria officinalis; Macleaya cordata Extracts by HPLC-DAD and Comparison of Their Cytotoxic Activity. Toxins, 2019, 11, 575.	1.5	28
15	Preclinical evaluation of 1,2,4-triazole-based compounds targeting voltage-gated sodium channels (VGSCs) as promising anticonvulsant drug candidates. Bioorganic Chemistry, 2020, 94, 103355.	2.0	28
16	Hydroxypropyl-Î²-cyclodextrin as an effective carrier of curcumin â€“ piperine nutraceutical system with improved enzyme inhibition properties. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 1811-1821.	2.5	27
17	Effect of Tryptophan-Derived AhR Ligands, Kynurenine, Kynurenic Acid and FICZ, on Proliferation, Cell Cycle Regulation and Cell Death of Melanoma Cellsâ€”In Vitro Studies. International Journal of Molecular Sciences, 2020, 21, 7946.	1.8	27
18	TLC of Alkaloids on Cyanopropyl Bonded Stationary Phases. Part II. Connection with RP18 and Silica Plates. Journal of Chromatographic Science, 2008, 46, 291-297.	0.7	25

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19	Determination of the Primary Molecular Target of 1,2,4-Triazole-Ciprofloxacin Hybrids. Molecules, 2015, 20, 6254-6272.	1.7	25
20	Effect of 4-(4-bromophenyl)-5-(3-chlorophenyl)-2,4-dihydro-3H-1,2,4-triazole-3-thione on the anticonvulsant action of different classical antiepileptic drugs in the mouse maximal electroshock-induced seizure model. European Journal of Pharmacology, 2012, 690, 99-106.	1.7	24
21	1,4-Disubstituted Thiosemicarbazide Derivatives are Potent Inhibitors of Toxoplasma gondii Proliferation. Molecules, 2014, 19, 9926-9943.	1.7	24
22	Synthesis, In Vitro Biological Screening and Molecular Docking Studies of Novel Camphor-Based Thiazoles. Medicinal Chemistry, 2014, 10, 600-608.	0.7	24
23	Synthesis and In Vitro Antiproliferative Activity of Thiazole-Based Nitrogen Mustards: The Hydrogen Bonding Interaction between Model Systems and Nucleobases. Anti-Cancer Agents in Medicinal Chemistry, 2014, 14, 1271-1281.	0.9	22
24	Thiazole-based nitrogen mustards: Design, synthesis, spectroscopic studies, DFT calculation, molecular docking, and antiproliferative activity against selected human cancer cell lines. Journal of Molecular Structure, 2016, 1119, 139-150.	1.8	21
25	Computer-Aided Design of Cefuroxime Axetil/Cyclodextrin System with Enhanced Solubility and Antimicrobial Activity. Biomolecules, 2020, 10, 24.	1.8	21
26	Synthesis, molecular docking, ctDNA interaction, DFT calculation and evaluation of antiproliferative and anti-Toxoplasma gondii activities of 2,4-diaminotriazine-thiazole derivatives. Medicinal Chemistry Research, 2018, 27, 1131-1148.	1.1	20
27	A Tryptophan Metabolite, 8-Hydroxyquinaldic Acid, Exerts Antiproliferative and Anti-Migratory Effects on Colorectal Cancer Cells. Molecules, 2020, 25, 1655.	1.7	20
28	Molecular mechanism of action and safety of 5-(3-chlorophenyl)-4-hexyl-2,4-dihydro-3H-1,2,4-triazole-3-thione - a novel anticonvulsant drug candidate. International Journal of Medical Sciences, 2017, 14, 741-749.	1.1	19
29	Biological evaluation and molecular modelling study of thiosemicarbazide derivatives as bacterial type IIA topoisomerases inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 14-22.	2.5	18
30	Fate and distribution of kynurenic acid administered as beverage. Pharmacological Reports, 2018, 70, 1089-1096.	1.5	18
31	Comparison of Anticancer Activity and HPLC-DAD Determination of Selected Isoquinoline Alkaloids from Thalictrum foetidum, Berberis sp. and Chelidonium majus Extracts. Molecules, 2019, 24, 3417.	1.7	18
32	Influence of 5-(3-chlorophenyl)-4-(4-methylphenyl)-2,4-dihydro-3H-1,2,4-triazole-3-thione on the anticonvulsant action of 4 classical antiepileptic drugs in the mouse maximal electroshock-induced seizure model. Pharmacological Reports, 2012, 64, 970-978.	1.5	17
33	Triazole-Based Compound as a Candidate To Develop Novel Medicines To Treat Toxoplasmosis. Antimicrobial Agents and Chemotherapy, 2014, 58, 7583-7585.	1.4	17
34	Hydrogel Delivery System Containing Calendulae flos Lyophilized Extract with Chitosan as a Supporting Strategy for Wound Healing Applications. Pharmaceutics, 2020, 12, 634.	2.0	17
35	Microbiologically active Mannich bases derived from 1,2,4-triazoles. The effect of C-5 substituent on antibacterial activity. Medicinal Chemistry Research, 2013, 22, 2531-2537.	1.1	15
36	Permeability of Hypogymnia physodes Extract Componentâ€"Physodic Acid through the Bloodâ€"Brain Barrier as an Important Argument for Its Anticancer and Neuroprotective Activity within the Central Nervous System. Cancers, 2021, 13, 1717.	1.7	15

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37	Lichen-Derived Compounds and Extracts as Biologically Active Substances with Anticancer and Neuroprotective Properties. Pharmaceuticals, 2021, 14, 1293.	1.7	15
38	The antinociceptive effect of 4-substituted derivatives of 5-(4-chlorophenyl)-2-(morpholin-4-ylmethyl)-2,4-dihydro-3H-1,2,4-triazole-3-thione in mice. Naunyn-Schmiedeberg's Archives of Pharmacology, 2014, 387, 367-375.	1.4	14
39	Halogen bonding in the antibacterial 1,2,4-triazole-3-thione derivative â€“ Spectroscopic properties, crystal structure and conformational analysis. Journal of Molecular Structure, 2015, 1083, 187-193.	1.8	14
40	Structureâ€“activity Relationship Studies of Microbiologically Active Thiosemicarbazides Derived from Hydroxybenzoic Acid Hydrazides. Chemical Biology and Drug Design, 2015, 85, 315-325.	1.5	14
41	Presence of kynurenic acid in alcoholic beverages â€“ Is this good news, or bad news?. Medical Hypotheses, 2019, 122, 200-205.	0.8	14
42	Synthesis, Antibacterial Activity, Interaction with Nucleobase and Molecular Docking Studies of 4-Formylbenzoic Acid Based Thiazoles. Medicinal Chemistry, 2016, 12, 553-562.	0.7	14
43	Search for human DNA topoisomerase II poisons in the group of 2,5-disubstituted-1,3,4-thiadiazoles. Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 1021-1026.	2.5	13
44	Synthesis and antibacterial activity of 1,4-dibenzoylthiosemicarbazide derivatives. Biomedicine and Pharmacotherapy, 2017, 88, 1235-1242.	2.5	12
45	Synthesis, Antimicrobial Activities and Molecular Docking Studies of Novel 6-Hydroxybenzofuran-3(2H)-one Based 2,4-Disubstituted 1,3- Thiazoles. Letters in Drug Design and Discovery, 2013, 10, 798-807.	0.4	12
46	Zinc Coordination Compounds with Benzimidazole Derivatives: Synthesis, Structure, Antimicrobial Activity and Potential Anticancer Application. International Journal of Molecular Sciences, 2022, 23, 6595.	1.8	12
47	Analysis of new potential anticonvulsant compounds in mice brain tissue by SPE/HPLC/DAD. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2012, 909, 26-33.	1.2	11
48	Pharmacological and Structure-Activity Relationship Evaluation of 4-aryl-1-Diphenylacetyl(thio)semicarbazides. Molecules, 2014, 19, 4745-4759.	1.7	11
49	Determination of Cytisine and N-Methylcytisine from Selected Plant Extracts by High-Performance Liquid Chromatography and Comparison of Their Cytotoxic Activity. Toxins, 2020, 12, 557.	1.5	11
50	UVB Radiation and Selected Tryptophan-Derived AhR Ligandsâ€”Potential Biological Interactions in Melanoma Cells. International Journal of Molecular Sciences, 2021, 22, 7500.	1.8	11
51	New derivative of 1,2,4-triazole-3-thione (TP427) potentiates the anticonvulsant action of valproate, but not that of carbamazepine, phenytoin or phenobarbital in the mouse tonic-clonic seizure model. Pharmacological Reports, 2019, 71, 299-305.	1.5	10
52	Inhibitory effect of 1,2,4-triazole-ciprofloxacin hybrids on Haemophilus parainfluenzae and Haemophilus influenzae biofilm formation inÂvitro under stationary conditions. Research in Microbiology, 2016, 167, 647-654.	1.0	9
53	Molecular Properties Prediction, Docking Studies, and Antimicrobial Screening of 1,3,4-Thiadiazole and s-Triazole Derivatives. Current Computer-Aided Drug Design, 2014, 10, 3-14.	0.8	9
54	Synthesis and antibacterial activity of some novel N2â€hydroxymethyl and N2â€aminomethyl derivatives of 4â€arylâ€5â€(3â€chlorophenyl)â€2,4â€dihydroâ€3Hâ€1,2,4â€triazoleâ€3â€thione. Heteroatom Chemistry, 2011, 22, 737-743.	0.4	8

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55	Antimicrobial and Physicochemical Characterizations of Thiosemicarbazide and S-Triazole Derivatives. Phosphorus, Sulfur and Silicon and the Related Elements, 2014, 189, 1539-1545.	0.8	8
56	Highâ€performance liquid chromatography thermodynamic study of new potential antiepileptic compounds on a cholesterol column using isocratic elution with methanol/water and acetonitrile/water eluent systems. Journal of Separation Science, 2017, 40, 4176-4190.	1.3	8
57	Lipophilicity Studies on Thiosemicarbazide Derivatives. Molecules, 2017, 22, 952.	1.7	8
58	Thermodynamic study of new antiepileptic compounds by combining chromatography on the phosphatidylcholine biomimetic stationary phase and differential scanning calorimetry. Journal of Separation Science, 2019, 42, 2628-2639.	1.3	8
59	Dual Antibacterial and Anticancer Activity of 4-Benzoyl-1-dichlorobenzoylthiosemicarbazide Derivatives. Anti-Cancer Agents in Medicinal Chemistry, 2018, 18, 529-540.	0.9	8
60	Novel Concept of Discrimination of 1,2,4-Triazole-3-thione and 3-Thiol Tautomers. Journal of Chromatographic Science, 2017, 55, 117-129.	0.7	7
61	Determination of Cytotoxic Activity of Sanguinaria canadensis Extracts against Human Melanoma Cells and Comparison of Their Cytotoxicity with Cytotoxicity of Some Anticancer Drugs. Molecules, 2021, 26, 1738.	1.7	7
62	Synthesis, biological evaluation and molecular docking studies of novel quinuclidinone derivatives as potential antimicrobial and anticonvulsant agents. Medicinal Chemistry Research, 2017, 26, 2088-2104.	1.1	7
63	Design, synthesis and biological evaluation of 4-benzoyl-1-dichlorobenzoylthiosemicarbazides as potent Gram-positive antibacterial agents. Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 31, 1-7.	2.5	6
64	Synergistic Effects of Thiosemicarbazides with Clinical Drugs against S. aureus. Molecules, 2020, 25, 2302.	1.7	6
65	Anticonvulsant and neurotoxic effects of a novel 1,2,4-triazole-3-thione derivative (TPF-34) and its isobolographic interaction profile with classical antiepileptic drugs in mice. Pharmacological Reports, 2020, 72, 87-95.	1.5	6
66	1,3,4-Thiadiazoles Effectively Inhibit Proliferation of Toxoplasma gondii. Cells, 2021, 10, 1053.	1.8	6
67	Effect of Chronic Administration of 5-(3-chlorophenyl)-4-Hexyl-2,4 -Dihydro-3H-1,2,4-Triazole-3-Thione (TP-315)â€"A New Anticonvulsant Drug Candidateâ€"On Living Organisms. International Journal of Molecular Sciences, 2021, 22, 3358.	1.8	5
68	The Inclusion of Tolfenamic Acid into Cyclodextrins Stimulated by Microenvironmental pH Modification as a Way to Increase the Anti-Migraine Effect. Journal of Pain Research, 2021, Volume 14, 981-992.	0.8	5
69	Synthesis and in vitro Study of Antiviral and Virucidal Activity of Novel 2-[(4-Methyl-4H-1,2,4-triazol-3-yl)sulfanyl]acetamide Derivatives. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 2011, 66, 333-339.	0.6	4
70	Quinaldic acid induces changes in the expression of p53 tumor suppressor both on protein and gene level in colon cancer LS180 cells. Pharmacological Reports, 2019, 71, 189-193.	1.5	4
71	Perception of Old Age by the Inhabitants of Poland. International Journal of Environmental Research and Public Health, 2020, 17, 2389.	1.2	4
72	Anticonvulsant Effectiveness and Neurotoxicity Profile of 4-butyl-5-[(4-chloro-2-methylphenoxy)methyl]-2,4-dihydro-3H-1,2,4-triazole-3-thione (TPL-16) in Mice. Neurochemical Research, 2021, 46, 396-410.	1.6	4

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73	Synthesis and Antibacterial Activity of 4,5-disubstituted-1,2,4-triazole-3- thiones. Letters in Drug Design and Discovery, 2013, 10, 917-922.	0.4	4
74	Aloe arborescens: In Vitro Screening of Genotoxicity, Effective Inhibition of Enzyme Characteristics for Disease Etiology, and Microbiological Activity. Molecules, 2022, 27, 2323.	1.7	4
75	Diversity in Antibacterial Activity of Thiosemicarbazides Derived from 3-Chlorobenzhydrazide. Letters in Drug Design and Discovery, 2013, 10, 492-496.	0.4	3
76	Structureâ€“activity relationship of sâ€triazoles and thiadiazoles as analgesics. Heteroatom Chemistry, 2010, 21, 256-264.	0.4	2
77	Comparison of mouse plasma and brain tissue homogenate sample pretreatment methods prior to high-performance liquid chromatography for a new 1,2,4-triazole derivative with anticonvulsant activity. Journal of Separation Science, 2015, 38, 2149-2157.	1.3	2
78	Determination of 5-(3-Chlorophenyl)-4-hexyl-2,4-dihydro-3H-1,2,4-triazole-3-thione in Mouse Brain Tissue by Microwave-Assisted Extraction and High-Performance Liquid Chromatography with Fluorescence Detection. Analytical Letters, 2015, 48, 318-327.	1.0	2
79	Halogen Substituents as an Effective Modulators of Antibacterial Activity of Substituted 1,2,4-triazole-3-thiones. Letters in Drug Design and Discovery, 2012, 9, 947-952.	0.4	2
80	In Vitro Evaluation of the Antioxidant Activity and Chemopreventive Potential in Human Breast Cancer Cell Lines of the Standardized Extract Obtained from the Aerial Parts of Zigzag Clover (Trifolium) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 4	1.7	2
81	Teicoplanin-Modified HPLC Column as a Source of Experimental Parameters for Prediction of the Anticonvulsant Activity of 1,2,4-Triazole-3-Thiones by the Regression Models. Materials, 2020, 13, 2650.	1.3	1
82	The Effect of N-4 Substituent on Antibacterial Activity of Novel Hydroxymethyl/Aminomethyl Derivatives of 1,2,4-Triazole-3-thione. Letters in Drug Design and Discovery, 2012, 9, 633-637.	0.4	1
83	Preliminary Pharmacological Screening of Some Thiosemicarbazide, s-triazole, and Thiadiazole Derivatives. CNS and Neurological Disorders - Drug Targets, 2016, 15, 730-739.	0.8	1
84	Evaluation of the effectiveness of rehabilitation of people diagnosed with schizophrenia using clinical tools, psychological tests, QEEG, and the brain-derived neurotrophic factor (BDNF). Psychiatria Polska, 2019, 53, 1275-1292.	0.2	1
85	Antinociceptive screening of various 1,2,4-triazole-3-thione derivatives in the hot-plate test in mice. Journal of Pre-Clinical and Clinical Research, 2019, 13, 9-12.	0.2	0
86	The impact of ACE inhibitors on the risk of SARS-CoV-2 virus infection and the course of COVID-19 disease. Zdrowie Publiczne, 2019, 129, 148-151.	0.2	0
87	Spectroscopic Evaluation of the Potential Neurotoxic Effects of a New Candidate for Anti-Seizure Medicationâ€”TP-315 during Chronic Administration (In Vivo). International Journal of Molecular Sciences, 2022, 23, 4607.	1.8	0