Aleksandra Misicka

List of Publications by Year
in descending order

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86 papers	1,298 citations	361045 20 h-index	433756 31 g-index

87 all docs	87 docs citations	87 times ranked	1562 citing authors

#	Article	IF	Citations
1	HD2C histone deacetylase and a SWI/SNF chromatin remodelling complex interact and both are involved in mediating the heat stress response in Arabidopsis. Plant, Cell and Environment, 2016, 39, 2108-2122.	2.8	109
2	Certain Aspects of Silver and Silver Nanoparticles in Wound Care: A Minireview. Journal of Nanomaterials, 2016, 2016, 1-10.	1.5	108
3	Effect of Interchain Hydrogen Bonding on Electron Transfer through Alkanethiol Monolayers Containing Amide Bonds. Journal of Physical Chemistry B, 2000, 104, 5399-5402.	1.2	61
4	Distance Dependence of the Electron Transfer Rate through Oligoglycine Spacers Introduced into Self-Assembled Monolayers. Journal of Physical Chemistry B, 2004, 108, 8102-8105.	1.2	59
5	Biological activity of fragments and analogues of the potent dimeric opioid peptide, biphalin. Bioorganic and Medicinal Chemistry Letters, 1999, 9, 2763-2766.	1.0	44
6	Fentanyl Family at the Mu-Opioid Receptor: Uniform Assessment of Binding and Computational Analysis. Molecules, 2019, 24, 740.	1.7	39
7	Structure-activity relationship of biphalin. The synthesis and biological activities of new analogues with modifications in positions 3 and 4. Life Sciences, 1997, 60, 1263-1269.	2.0	37
8	The role of allogenic keratinâ€derived dressing in wound healing in a mouse model. Wound Repair and Regeneration, 2017, 25, 62-74.	1.5	30
9	Modifications of the 4,4â€²-residues and sar studies of biphalin, a highly potent opioid receptor active peptide. Bioorganic and Medicinal Chemistry Letters, 1998, 8, 555-560.	1.0	28
10	Enantioseparation of Î²2-amino acids on cinchona alkaloid-based zwitterionic chiral stationary phases. Structural and temperature effects. Journal of Chromatography A, 2014, 1334, 44-54.	1.8	28
11	HPLC enantioseparation of Î²²â€homoamino acids using crown etherâ€based chiral stationary phase. Journal of Separation Science, 2009, 32, 981-987.	1.3	27
12	Comparison of performance of Chirobiotic T, T2 and TAG columns in the separation of Î²²â€• and Î²³â€homoamino acids. Journal of Separation Science, 2008, 31, 3688-3697.	1.3	25
13	Hydrazone Linker as a Useful Tool for Preparing Chimeric Peptide/Nonpeptide Bifunctional Compounds. ACS Medicinal Chemistry Letters, 2017, 8, 73-77.	1.3	25
14	The Role of VEGF Receptors as Molecular Target in Nuclear Medicine for Cancer Diagnosis and Combination Therapy. Cancers, 2021, 13, 1072.	1.7	25
15	Vasopressin and Related Peptides; Potential Value in Diagnosis, Prognosis and Treatment of Clinical Disorders. Current Drug Metabolism, 2017, 18, 306-345.	0.7	25
16	Diastereoselective Pictetâ€“Spengler condensation of tryptophan with Î±-amino aldehydes as chiral carbonyl components. Tetrahedron, 2008, 64, 1506-1514.	1.0	23
17	Branched pentapeptides as potent inhibitors of the vascular endothelial growth factor 165 binding to Neuropilin-1: Design, synthesis and biological activity. European Journal of Medicinal Chemistry, 2018, 158, 453-462.	2.6	23
18	Interaction of a highly potent dimeric enkephalin analog, biphalin, with model membranes. Biochimica Et Biophysica Acta - Biomembranes, 1997, 1329, 245-258.	1.4	22

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19	Amyloidogenic Properties of Short Î±-<scp>l</scp>-Glutamic Acid Oligomers. Langmuir, 2015, 31, 10500-10507.	1.6	21
20	Design, synthesis and in vitro biological evaluation of a small cyclic peptide as inhibitor of vascular endothelial growth factor binding to neuropilin-1. Bioorganic and Medicinal Chemistry Letters, 2016, 26, 2843-2846.	1.0	21
21	High-performance liquid chromatographic enantioseparation of Î²2-amino acids using a long-tethered (+)-(18-crown-6)-2,3,11,12-tetracarboxylic acid-based chiral stationary phase. Journal of Chromatography A, 2010, 1217, 1075-1082.	1.8	18
22	Structure-activity relationship study of tetrapeptide inhibitors of the Vascular Endothelial Growth Factor A binding to Neuropilin-1. Peptides, 2017, 94, 25-32.	1.2	18
23	Radiochemical Synthesis and Evaluation of Novel Radioconjugates of Neurokinin 1 Receptor Antagonist Aprepitant Dedicated for NK1R-Positive Tumors. Molecules, 2020, 25, 3756.	1.7	17
24	Comparison of the Separation Performances of Cinchona Alkaloid-Based Zwitterionic Stationary Phases in the Enantioseparation of Î²2- and Î²3-Amino Acids. Molecules, 2015, 20, 70-87.	1.7	16
25	SERS and DFT Study of Noble-Metal-Anchored Cys-Trp/Trp-Cys Dipeptides: Influence of Main-Chain Direction and Terminal Modifications. Journal of Physical Chemistry C, 2020, 124, 7097-7116.	1.5	16
26	Highâ€performance liquid chromatographic chiral separation of Î²²â€homoamino acids. Chirality, 2009, 21, 787-798.	1.3	15
27	Synthesis and biological properties of Î²â€MePhe³ analogues of deltorphin I and dermenkephalin: influence of biased X¹ of Phe³ residues on peptide recognition for Îâ€opioid receptors. Chemical Biology and Drug Design, 1997, 50, 48-54.	1.2	15
28	Conformational latitude â€“ activity relationship of KPPR tetrapeptide analogues toward their ability to inhibit binding of vascular endothelial growth factor 165 to neuropilinâ€1. Journal of Peptide Science, 2017, 23, 445-454.	0.8	15
29	[125I-Tyr1]biphalin binding to opioid receptors of rat brain and NG108-15 cell membranes. Life Sciences, 1998, 62, PL199-PL204.	2.0	14
30	Beware of Cocktails: Chain-Length Bidispersity Triggers Explosive Self-Assembly of Poly-<scp>l</scp>-Glutamic Acid Î²₂-Fibrils. Biomacromolecules, 2016, 17, 1376-1382.	2.6	14
31	Biphalin protects against cognitive deficits in a mouse model of mild traumatic brain injury (mTBI). Neuropharmacology, 2016, 101, 506-518.	2.0	14
32	Structure-activity relationship study of a small cyclic peptide H-c[Lys-Pro-Glu]-Arg-OH: a potent inhibitor of Vascular Endothelial Growth Factor interaction with Neuropilin-1. Bioorganic and Medicinal Chemistry, 2017, 25, 597-602.	1.4	14
33	Novel hybrid compounds, opioid agonist+melanocortin 4 receptor antagonist, as efficient analgesics in mouse chronic constriction injury model of neuropathic pain. Neuropharmacology, 2020, 178, 108232.	2.0	14
34	Biphalin preferentially recruits peripheral opioid receptors to facilitate analgesia in a mouse model of cancer pain - A comparison with morphine. European Journal of Pharmaceutical Sciences, 2016, 89, 39-49.	1.9	13
35	Triazolopeptides Inhibiting the Interaction between Neuropilin-1 and Vascular Endothelial Growth Factor-165. Molecules, 2019, 24, 1756.	1.7	13
36	Influence of reaction conditions on products of the Pictetâ€“Spengler condensation. Tetrahedron, 2011, 67, 1955-1959.	1.0	12

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37	Neuropilin-1 peptide-like ligands with proline mimetics, tested using the improved chemiluminescence affinity detection method. MedChemComm, 2019, 10, 332-340.	3.5	12
38	Antinociceptive and Cytotoxic Activity of Opioid Peptides with Hydrazone and Hydrazide Moieties at the C-Terminus. Molecules, 2020, 25, 3429.	1.7	12
39	The effect of intracerebroventricular infusion of morphine, methionine-enkephalin and D-Ala2-Met-enkephalinamide on body temperature of rabbits. Archives Internationales De Physiologie Et De Biochimie, 1982, 90, 1-7.	0.2	11
40	New tetracyclic tetrahydro-Î²-carbolines as tryptophan-derived peptidomimetics. Molecular Diversity, 2010, 14, 97-108.	2.1	11
41	Physicochemical properties and in vitro cytotoxicity of iron oxide-based nanoparticles modified with antiangiogenic and antitumor peptide A7R. Journal of Nanoparticle Research, 2017, 19, 160.	0.8	11
42	Novel NK1R-Targeted 68Ga-/177Lu-Radioconjugates with Potential Application against Glioblastoma Multiforme: Preliminary Exploration of Structureâ€“Activity Relationships. International Journal of Molecular Sciences, 2022, 23, 1214.	1.8	11
43	Biological properties of a new fluorescent biphalin fragment analogue. Life Sciences, 2002, 70, 893-897.	2.0	10
44	Affinity of fentanyl and its derivatives for the Ïƒ1-receptor. MedChemComm, 2019, 10, 1187-1191.	3.5	10
45	Ischemia/Reperfusion-Induced Translocation of PKCÎ²II to Mitochondria as an Important Mediator of a Protective Signaling Mechanism in an Ischemia-Resistant Region of the Hippocampus. Neurochemical Research, 2017, 42, 2392-2403.	1.6	9
46	Novel bifunctional hybrid compounds designed to enhance the effects of opioids and antagonize the pronociceptive effects of nonopioid peptides as potent analgesics in a rat model of neuropathic pain. Pain, 2021, 162, 432-445.	2.0	9
47	The solid state VCD of a novel N-acylhydrazone trifluoroacetate. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 269, 120761.	2.0	9
48	Delta opioid receptor selective ligands; DPLPEâ€deltorphin chimeric peptide analogues^{â€}. International Journal of Peptide and Protein Research, 1994, 44, 80-84.	0.1	8
49	High activity of endogenous opioid system protects against gastric damage development in mouse models of gastric mucosal injury. Pharmacological Reports, 2019, 71, 218-224.	1.5	8
50	Huperzine A and Huperzine B Production by Prothallus Cultures of Huperzia selago (L.) Bernh. ex Schrank et Mart. Molecules, 2020, 25, 3262.	1.7	8
51	Urea-Peptide Hybrids as VEGF-A165/NRP-1 Complex Inhibitors with Improved Receptor Affinity and Biological Properties. International Journal of Molecular Sciences, 2021, 22, 72.	1.8	8
52	Synthesis, Physicochemical and Biological Study of Gallium-68- and Lutetium-177-Labeled VEGF-A165/NRP-1 Complex Inhibitors Based on Peptide A7R and Branched Peptidomimetic. Pharmaceutics, 2022, 14, 100.	2.0	8
53	Synthesis, binding affinities and metabolic stability of dimeric dermorphin analogs modified withÎ²³-homo-amino acids. Journal of Peptide Science, 2016, 22, 222-227.	0.8	7
54	Urea moiety as amide bond mimetic in peptide-like inhibitors of VEGF-A165/NRP-1 complex. Bioorganic and Medicinal Chemistry Letters, 2019, 29, 2493-2497.	1.0	7

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55	In Vivo, In Vitro and In Silico Studies of the Hybrid Compound AA3266, an Opioid Agonist/NK1R Antagonist with Selective Cytotoxicity. International Journal of Molecular Sciences, 2020, 21, 7738.	1.8	7
56	Does Cysteine Rule (CysR) Complete the CendR Principle? Increase in Affinity of Peptide Ligands for NRP-1 Through the Presence of N-Terminal Cysteine. Biomolecules, 2020, 10, 448.	1.8	7
57	Enantioseparation of ÃŸ-amino acids by liquid chromatography using core-shell chiral stationary phases based on teicoplanin and teicoplanin aglycone. Journal of Chromatography A, 2021, 1653, 462383.	1.8	7
58	HPLC-PDA-ESI-HRMS-Based Profiling of Secondary Metabolites of Rindera graeca Anatomical and Hairy Roots Treated with Drought and Cold Stress. Cells, 2022, 11, 931.	1.8	7
59	Î²2-Homo-Amino Acid Scan of Âµ-Selective Opioid Tetrapeptide TAPP. Molecules, 2020, 25, 2461.	1.7	6
60	Solution Phase Peptide Synthesis: The Case of Biphalin. Methods in Molecular Biology, 2020, 2103, 1-11.	0.4	6
61	Equilibrium of thecis-trans isomerisation of the peptide bond with N-alkyl amino acids measured by 2D NMR. International Journal of Peptide Research and Therapeutics, 1998, 5, 375-377.	0.1	5
62	Biological consequences of the incorporation of amphiphilic amino acids into opioid peptide sequences. International Journal of Peptide Research and Therapeutics, 1998, 5, 383-385.	0.1	5
63	Peptides and peptidoaldehydes as substrates for the Pictetâ€“Spengler reaction. Journal of Peptide Science, 2013, 19, 433-440.	0.8	5
64	Enkephalin degradation in serum of patients with inflammatory bowel diseases. Pharmacological Reports, 2019, 71, 42-47.	1.5	5
65	Multifunctional Enkephalin Analogs with a New Biological Profile: MOR/DOR Agonism and KOR Antagonism. Biomedicines, 2021, 9, 625.	1.4	5
66	The effect of wool hydrolysates on squamous cell carcinoma cells in vitro. Possible implications for cancer treatment. PLoS ONE, 2017, 12, e0184034.	1.1	5
67	Bifunctional Opioid/Melanocortin Peptidomimetics for Use in Neuropathic Pain: Variation in the Type and Length of the Linker Connecting the Two Pharmacophores. International Journal of Molecular Sciences, 2022, 23, 674.	1.8	5
68	Imaging and identification of endogenous peptides from rat pituitary embedded in egg yolk. Rapid Communications in Mass Spectrometry, 2015, 29, 327-335.	0.7	4
69	Opioid Tripeptides Hybridized with transâ€1â€Cinnamylpiperazine as Proliferation Inhibitors of Pancreatic Cancer Cells in Twoâ€•and Threeâ€Dimensional inâ€…vitro Models. ChemMedChem, 2017, 12, 1637-1644.	1.6	4
70	Antiproliferative effects of [D-Pro2, D-Trp7,9]-Substance P and aprepitant on several cancer cell lines and their selectivity in comparison to normal cells. Folia Neuropathologica, 2020, 58, 237-244.	0.5	4
71	Small Cyclic Peptide for Pyrophosphate Dependent Ligation in Prebiotic Environments. Life, 2020, 10, 103.	1.1	4
72	In Vitro Biological Evaluation of Aprepitant Based 177Lu-Radioconjugates. Pharmaceutics, 2022, 14, 607.	2.0	4

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73	Effects of terminal capping on the fibrillation of short (L-Glu)n peptides. Colloids and Surfaces B: Biointerfaces, 2017, 159, 861-868.	2.5	3
74	Biphalinâ€"A Potent Opioid Agonistâ€"As a Panacea for Opioid System-Dependent Pathophysiological Diseases?. International Journal of Molecular Sciences, 2021, 22, 11347.	1.8	3
75	Polyscias filicifolia (Araliaceae) Hairy Roots with Antigenotoxic and Anti-Photogenotoxic Activity. Molecules, 2022, 27, 186.	1.7	3
76	Synthesis of rigid tryptophan mimetics by the diastereoselective Pictet-Spengler reaction ofÎ²³-homo-tryptophan derivatives with chiralÎ±-amino aldehydes. Journal of Peptide Science, 2015, 21, 893-904.	0.8	2
77	The role of drugs and selected dietary factors in cutaneous squamous cell carcinogenesis. Postepy Dermatologii I Alergologii, 2021, 38, 198-204.	0.4	2
78	Title is missing!. International Journal of Peptide Research and Therapeutics, 1998, 5, 383-385.	0.1	1
79	The impact of Î²â€azido(or 1â€piperidinyl)methylamino acids in position 2 or 3 on biological activity and conformation of dermorphin analogues. Journal of Peptide Science, 2016, 22, 545-551.	0.8	1
80	Title is missing!. International Journal of Peptide Research and Therapeutics, 1998, 5, 375-377.	0.1	0
81	Cross interaction of Î²-amyloid peptide and prion protein fragments. International Journal of Peptide Research and Therapeutics, 2002, 9, 77-81.	0.1	0
82	Cross interaction of Î²-amyloid peptide and prion protein fragments. International Journal of Peptide Research and Therapeutics, 2002, 9, 77-81.	0.1	0
83	Original article In vitro pharmacological evaluation of the radiolabeled C-terminal substance P analogue Lys-Phe-Phe-Gly-Leu-Met-NH2: Does aÂspecific binding site exist?. Folia Neuropathologica, 2014, 4, 383-393.	0.5	0
84	A Phage Display-Identified Short Peptide Capable of Hydrolyzing Calcium Pyrophosphate Crystalsâ€"The Etiological Factor of Chondrocalcinosis. Molecules, 2021, 26, 5777.	1.7	0
85	Biodegradation of exogenous DNA by bio-products used in domestic sewage treatment. , 2009, , .		0
86	An excursion into secondary pharmacology of fentanyls with potential implications for drug design: Ïƒ1 receptor. , 2022, , 89-100.		0