

Åva Frank

List of Publications by Year in descending order

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76
papers

1,211
citations

304368

22
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454577

30
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88
all docs

88
docs citations

88
times ranked

1024
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient Approach to Androstene-Fused Arylpyrazolines as Potent Antiproliferative Agents. Experimental and Theoretical Studies of Substituent Effects on BF ₃ -Catalyzed Intramolecular [3 + 2] Cycloadditions of Olefinic Phenylhydrazones. <i>Journal of the American Chemical Society</i> , 2009, 131, 3894-3904.	6.6	79
2	Synthesis of sex hormone-derived modified steroids possessing antiproliferative activity. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2013, 137, 301-315.	1.2	54
3	Synthesis and investigation of the anticancer effects of estrone-16-oxime ethers in vitro. <i>Steroids</i> , 2013, 78, 69-78.	0.8	53
4	Synthesis of novel steroidal 17 β -triazolyl derivatives via Cu(I)-catalyzed azide-alkyne cycloaddition, and an evaluation of their cytotoxic activity in vitro. <i>Steroids</i> , 2011, 76, 1141-1148.	0.8	38
5	Stereoselective synthesis of some novel heterocyclic estrone derivatives by intramolecular 1,3-dipolar cycloaddition. <i>Tetrahedron</i> , 2002, 58, 6843-6849.	1.0	37
6	Antiproliferative effects of some novel synthetic solanidine analogs on HL-60 human leukemia cells in vitro. <i>Steroids</i> , 2011, 76, 156-162.	0.8	35
7	A facile "click" approach to novel 15 β -triazolyl-5 β -androstane derivatives, and an evaluation of their antiproliferative activities in vitro. <i>Bioorganic and Medicinal Chemistry</i> , 2012, 20, 1396-1402.	1.4	34
8	Synthesis of Novel D-Secoestrone Isoquinuclidines by an Unpredicted Iminium Ion-Induced 1,5-Hydride Shift. <i>European Journal of Organic Chemistry</i> , 2004, 2004, 90-100.	1.2	32
9	Synthesis of Novel Steroid Alkaloids by Cyclization of Arylimines from Estrone. <i>European Journal of Organic Chemistry</i> , 1999, 1999, 3013-3020.	1.2	31
10	Synthesis, characterization and biological evaluation of some novel 17-isoxazoles in the estrone series. <i>Steroids</i> , 2012, 77, 1075-1085.	0.8	31
11	Synthesis and receptor-binding examinations of the normal and 13-epi-D-homoestrones and their 3-methyl ethers. <i>Steroids</i> , 2003, 68, 277-288.	0.8	30
12	Efficient access to novel androsteno-17-(1 β ,3 α ,4 β)-oxadiazoles and 17 β -(1 β ,3 α ,4 β)-thiadiazoles via N-substituted hydrazone and N,N-disubstituted hydrazine intermediates, and their pharmacological evaluation in vitro. <i>European Journal of Medicinal Chemistry</i> , 2015, 98, 13-29.	2.6	28
13	Synthesis and In Vitro Antiproliferative Activity of Novel Androst-5-ene Triazolyl and Tetrazolyl Derivatives. <i>Molecules</i> , 2011, 16, 4786-4806.	1.7	27
14	Intramolecular approach to some new D-ring-fused steroidal isoxazolidines by 1,3-dipolar cycloaddition: synthesis, theoretical and in vitro pharmacological studies. <i>New Journal of Chemistry</i> , 2010, 34, 2671.	1.4	25
15	Microwave-assisted one-pot synthesis of steroid-quinoline hybrids and an evaluation of their antiproliferative activities on gynecological cancer cell lines. <i>RSC Advances</i> , 2016, 6, 27501-27516.	1.7	25
16	Anticancer and Multidrug Resistance-Reversal Effects of Solanidine Analogs Synthetized from Pregnadienolone Acetate. <i>Molecules</i> , 2014, 19, 2061-2076.	1.7	24
17	Synthesis of Unusual Bridged Steroid Alkaloids by an Iminium Ion Induced 1,5-Shift of a Benzylic Hydride. <i>Angewandte Chemie - International Edition</i> , 1999, 38, 200-201.	7.2	23
18	Synthesis of novel halogen-containing d-homoestrone and 13 β -d-homoestrone derivatives by Lewis acid-induced intramolecular Prins reaction. <i>Tetrahedron</i> , 2002, 58, 6851-6861.	1.0	23

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19	Synthesis of Azasteroids and d-Homosteroids by Intramolecular Cyclization Reactions of Steroid Arylimines. <i>Synlett</i> , 1998, 1998, 1205-1206.	1.0	22
20	Synthesis of some novel D-ring-fused dioxo- and oxazaphosphorinanes in the estrone series. <i>Tetrahedron Letters</i> , 2006, 47, 1105-1108.	0.7	22
21	Efficient approach to novel 11 β -triazolyl-5 β -androstane derivatives as potent antiproliferative agents. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 8051.	1.5	22
22	An efficient approach to novel 17-5 α -(1 α ,2 α ,4 α)-oxadiazolyl androstenes via the cyclodehydration of cytotoxic O-steroidacylamidoximes, and an evaluation of their inhibitory action on 17 β -hydroxylase/C17,20-lyase. <i>European Journal of Medicinal Chemistry</i> , 2013, 70, 649-660.	2.6	22
23	Synthesis of novel 17-(4 α -formyl)pyrazolylandrosta-5,16-dienes and their derivatives as potent 17 β -hydroxylase/C17,20-lyase inhibitors or antiproliferative agents depending on the substitution pattern of the heteroring. <i>European Journal of Medicinal Chemistry</i> , 2016, 120, 284-295.	2.6	22
24	A facile access to novel steroidal 17-2 α -(1 α ,3 α ,4 α)-oxadiazoles, and an evaluation of their cytotoxic activities in vitro. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014, 24, 1265-1268.	1.0	21
25	Multicomponent access to androstano-arylpyrimidines under microwave conditions and evaluation of their anti-cancer activity in vitro. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2017, 172, 79-88.	1.2	21
26	Analysis of nonderivatized steroids by matrix-assisted laser desorption/ionization time-of-flight mass spectrometry using C70 fullerene as matrix. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 395, 869-874.	1.9	19
27	Salicylaldehyde thiosemicarbazone copper complexes: impact of hybridization with estrone on cytotoxicity, solution stability and redox activity. <i>New Journal of Chemistry</i> , 2020, 44, 12154-12168.	1.4	18
28	Stereoselective Synthesis of Novel 5 β -Androstenoarylpyrazoline Derivatives by BF ₃ ·OEt ₂ -Induced Intramolecular 1,3-Dipolar Cycloaddition. <i>Synlett</i> , 2007, 2007, 1311-1313.	1.0	17
29	Synthesis and conformational study of <i>p</i> -heterocyclic androstane derivatives. <i>Heteroatom Chemistry</i> , 2008, 19, 7-14.	0.4	17
30	Intramolecular Hydroalkylation of Hydrazones and Oxime Ethers: Synthesis of Novel Secoestrone Isoquinuclidines via Domino 1,5-Hydride Shift/Cyclization. <i>European Journal of Organic Chemistry</i> , 2009, 2009, 3544-3553.	1.2	16
31	The Effect of Molecular Weight on the Solubility Properties of Biocompatible Poly(ethylene Terephthalate) / Overlock 10 T	2.0	15
32	Efficient synthesis of novel A-ring-substituted 1,2,3-triazolylcholestane derivatives via catalytic azide-alkyne cycloaddition. <i>Arkivoc</i> , 2012, 2012, 279-296.	0.3	15
33	Microwave-assisted stereoselective approach to novel steroidal ring D-fused 2-pyrazolines and an evaluation of their cell-growth inhibitory effects in vitro. <i>Steroids</i> , 2016, 112, 36-46.	0.8	14
34	Nitrogen-Containing Heterocycles as Significant Molecular Scaffolds for Medicinal and Other Applications. <i>Molecules</i> , 2021, 26, 4617.	1.7	14
35	6-Membered P-Heterocycles: Ring-Condensed 1,3,2-Diheterophosphorinane 2-Chalcogenides. <i>Current Organic Chemistry</i> , 2007, 11, 1610-1623.	0.9	13
36	A Click Approach to Novel D-Ring-Substituted 16 β -Triazolylestrone Derivatives and Characterization of Their Antiproliferative Properties. <i>PLoS ONE</i> , 2015, 10, e0118104.	1.1	13

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37	Investigation of pH and substituent effects on the distribution ratio of novel steroidal ring D- and A-fused arylpyrazole regioisomers and evaluation of their cell-growth inhibitory effects in vitro. <i>Steroids</i> , 2017, 126, 35-49.	0.8	13
38	Lewis acid-induced intramolecular access to novel steroidal ring D-condensed arylpyrazolines exerting in vitro cell-growth-inhibitory effects. <i>Molecular Diversity</i> , 2015, 19, 511-527.	2.1	12
39	New steroid-fused P-heterocycles. <i>Steroids</i> , 2007, 72, 437-445.	0.8	11
40	Anti-Cancer Activity of Novel Dihydrotestosterone-Derived Ring A-Condensed Pyrazoles on Androgen Non-Responsive Prostate Cancer Cell Lines. <i>International Journal of Molecular Sciences</i> , 2019, 20, 2170.	1.8	11
41	Androstano-arylpyrimidines: Novel small molecule inhibitors of MDR1 for sensitizing multidrug-resistant breast cancer cells. <i>European Journal of Pharmaceutical Sciences</i> , 2021, 156, 105587.	1.9	11
42	New steroid-fused P-heterocycles. <i>Steroids</i> , 2007, 72, 446-458.	0.8	10
43	Multistep Synthesis and In Vitro Anticancer Evaluation of 2-Pyrazolyl-Estradiol Derivatives, Pyrazolocoumarin-Estradiol Hybrids and Analogous Compounds. <i>Molecules</i> , 2020, 25, 4039.	1.7	10
44	Synthesis of dihydrotestosterone derivatives modified in the A-ring with (hetero)arylidene, pyrazolo[1,5-a]pyrimidine and triazolo[1,5-a]pyrimidine moieties and their targeting of the androgen receptor in prostate cancer. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2021, 211, 105904.	1.2	10
45	Synthesis, functionalization and biological activity of arylated derivatives of (+)-estrone. <i>Bioorganic and Medicinal Chemistry</i> , 2017, 25, 949-962.	1.4	9
46	Solution equilibrium, structural and cytotoxicity studies on Ru(η^6 -p-cymene) and copper complexes of pyrazolyl thiosemicarbazones. <i>Journal of Inorganic Biochemistry</i> , 2020, 202, 110883.	1.5	9
47	Complex formation of an estrone-salicylaldehyde semicarbazone hybrid with copper(II) and gallium(III): Solution equilibria and biological activity. <i>Journal of Inorganic Biochemistry</i> , 2021, 220, 111468.	1.5	9
48	Regio- and stereoselective access to novel ring-condensed steroidal isoxazolines. <i>Steroids</i> , 2014, 87, 76-85.	0.8	8
49	Microwave-assisted synthesis of biologically relevant steroidal 17- <i>exo</i> -pyrazol-5'-ones from a norpregnene precursor by a side-chain elongation/heterocyclization sequence. <i>Beilstein Journal of Organic Chemistry</i> , 2018, 14, 2589-2596.	1.3	8
50	Synthesis and conversion of primary and secondary 2-aminoestradiols into A-ring-integrated benzoxazolone hybrids and their in vitro anticancer activity. <i>RSC Advances</i> , 2021, 11, 13885-13896.	1.7	8
51	Electrophile-induced generation of cyclic azomethine imines from steroidal $\hat{\imath}$ -alkenyl hydrazones. <i>Steroids</i> , 2009, 74, 474-482.	0.8	7
52	Synthesis, stereochemistry and cytotoxic activity of novel steroidal 16-spiro-1,3,2-dioxaphosphorinanes. <i>Journal of Molecular Structure</i> , 2012, 1013, 39-44.	1.8	7
53	Synthesis of novel steroidal 16-spiroisoxazolines by 1,3-dipolar cycloaddition, and an evaluation of their antiproliferative activities in vitro. <i>Molecular Diversity</i> , 2014, 18, 521-534.	2.1	7
54	Stereocontrolled synthesis of the four 16-hydroxymethyl-19-nortestosterone isomers and their antiproliferative activities. <i>Steroids</i> , 2016, 105, 113-120.	0.8	7

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55	Microwave-Assisted Stereoselective Heterocyclization to Novel Ring d-fused Arylpyrazolines in the Estrone Series. <i>Molecules</i> , 2019, 24, 569.	1.7	7
56	Synthesis and Conformational Preferences of Novel Steroidal 16-Spiro-1,3,2-Dioxaphosphorinanes. <i>Letters in Organic Chemistry</i> , 2009, 6, 340-344.	0.2	6
57	Stereocontrolled synthesis of the four possible 3-methoxy and 3-benzyloxy-16-triazolyl-methyl-estra-17-ol hybrids and their antiproliferative activities. <i>Steroids</i> , 2019, 152, 108500.	0.8	6
58	Biological evaluation of antiproliferative and anti-invasive properties of an androstadiene derivative on human cervical cancer cell lines. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2021, 214, 105990.	1.2	6
59	Regioselective synthesis, physicochemical properties and anticancer activity of 2-aminomethylated estrone derivatives. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2022, 219, 106064.	1.2	6
60	Chemoselective Suzuki-Miyaura reactions of 4-bromo-3-O-triflyl-estrone. Synthesis and atropisomerism of arylated estrones. <i>Tetrahedron</i> , 2018, 74, 2825-2836.	1.0	5
61	Estrone-salicylaldehyde N-methylated thiosemicarbazone hybrids and their copper complexes: solution structure, stability and anticancer activity in tumour spheroids. <i>Journal of Biological Inorganic Chemistry</i> , 2021, 26, 775-791.	1.1	5
62	Synthesis of 16- E -([aryl]idene)-3-methoxy-estrone by a palladium catalysed Mizoroki-Heck reaction. <i>Tetrahedron Letters</i> , 2017, 58, 2801-2803.	0.7	4
63	Stereoselective synthesis of new type of estradiol hybrid molecules and their antiproliferative activities. <i>Steroids</i> , 2019, 148, 63-72.	0.8	4
64	Microwave-Assisted Synthesis, Proton Dissociation Processes, and Anticancer Evaluation of Novel D-Ring-Fused Steroidal 5-Amino-1-Arylpyrazoles. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 229.	1.3	4
65	Antiproliferative and antimetastatic characterization of an exo-heterocyclic androstane derivative against human breast cancer cell lines. <i>Biomedicine and Pharmacotherapy</i> , 2021, 140, 111728.	2.5	4
66	Biocompatible poly(ethylene succinate) polyester with molecular weight dependent drug release properties. <i>International Journal of Pharmaceutics</i> , 2022, 618, 121653.	2.6	4
67	A comparative study on the complex formation of 2-aminoestradiol and 2-aminophenol with divalent metal ions: Solution chemistry and anticancer activity. <i>Journal of Molecular Structure</i> , 2022, 1261, 132858.	1.8	4
68	Site-Selective Synthesis of 3,17-Diaryl-1,3,5,16-estratetraenes. <i>Synlett</i> , 2019, 30, 600-604.	1.0	3
69	A Fluorinated D-Homoestrone Derivative. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 1996, 52, 2258-2259.	0.4	2
70	A Hexacyclic Estrone Derivative. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 1998, 54, 1341-1343.	0.4	2
71	3-Methoxy-1-phenyl-4,5-dihydro-1H-pyrazolo[4,3-b]estra-1,3,5(10)-triene. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2002, 58, o810-o811.	0.2	2
72	Regio- and stereoselective synthesis of pregnane-fused isoxazolines by nitril-oxide/alkene 1,3-dipolar cycloaddition and an evaluation of their cell-growth inhibitory effect in vitro. <i>Journal of Molecular Structure</i> , 2016, 1110, 143-149.	1.8	2

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73	Palladium-Catalysed Sonogashira Reactions of 16-(Hydroxymethylidene)-3-methoxy- $\hat{\pm}$ -estrone. Synlett, 2017, 28, 2647-2649.	1.0	2
74	Synthesis of novel 16-E-(arylidene)-3-methoxy- $\hat{\pm}$ -estrones via a palladium catalysed Suzuki-Miyaura reaction. Tetrahedron Letters, 2018, 59, 26-28.	0.7	2
75	Stereoselective Approach to some Novel 16-Methylated and 16-Halomethylated Tetrahydropyran and $\hat{\pm}$ -Lactone Derivatives in both the Normal and the 13 $\hat{\pm}$ -Estrone Series. Synlett, 2002, 2002, 1803-1806.	1.0	1
76	Synthesis of Some Novel D-Dihomo-aza- and D-Dihomo-oxa-steroid Derivatives in the Estrone Series. Synlett, 2005, 2005, 2814-2816.	1.0	1