ErnÅ‘ TyihÃ¡k

List of Publications by Year
in descending order

54 papers	1,195 citations	361413 20 h-index	377865 34 g-index
54 all docs	54 docs citations	54 times ranked	578 citing authors

#	Article	IF	Citations
1	New planar liquid chromatographic technique: overpressured thin-layer chromatography. Journal of Chromatography A, 1979, 174, 75-81.	3.7	192
2	Resolution and retention behaviour of some dyes in overpressured thin-layer chromatography. Journal of Chromatography A, 1980, 191, 293-300.	3.7	84
3	Optimization of operating parameters in overpressured thin-layer chromatography. Journal of Chromatography A, 1981, 211, 45-51.	3.7	67
4	Personal Overpressured-Layer Chromatography (OPLC) Basic System 50, Flexible Tool in Analytical and Semipreparative Work. Journal of AOAC INTERNATIONAL, 1999, 82, 587-598.	1.5	56
5	Effect of formaldehyde on cell proliferation and death. Cell Biology International, 2010, 34, 1273-1282.	3.0	55
6	New terpenoids in cultivated and wild chamomile (in vivo and in vitro). Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2004, 800, 231-238.	2.3	44
7	Overpressured layer chromatography: From the pressurized ultramicro chamber to BioArena system. Journal of Chromatography A, 2012, 1232, 3-18.	3.7	44
8	Possible role of formaldehyde in the apoptotic and mitotic effect of 1-methyl-ascorbigen. Pathology and Oncology Research, 1995, 1, 38-42.	1.9	35
9	Separation and Identification of Antibacterial Chamomile Components Using OPLC, Bioautography and GC-MS. Medicinal Chemistry, 2012, 8, 85-94.	1.5	33
10	Gas-liquid chromatographic analysis of dimedone derivatives of formaldehyde and other aliphatic aldehydes on capillary columns. Journal of Chromatography A, 1980, 191, 239-244.	3.7	32
11	Overpressured multi-layer chromatography. Journal of Chromatography A, 1989, 471, 375-387.	3.7	32
12	Overpressured layer chromatographic determination of aflatoxin B1, B2, G1 and G2 in red paprika. Microchemical Journal, 2007, 85, 140-144.	4.5	31
13	Simple determination of formaldehyde in dimedone adduct form in biological samples by high performance liquid chromatography. Biomedical Chromatography, 1994, 8, 313-314.	1.7	28
14	Micro-preparative OPLC â€" rapid isolation by transfusion and infusion-transfusion processes. Journal of Planar Chromatography - Modern TLC, 2002, 15, 280-285.	1.2	27
15	Formaldehyde, as its dimedone adduct, fromAscophyllum nodosum. Journal of Applied Phycology, 1996, 8, 211-215.	2.8	26
16	Usefulness of transgenic luminescent bacteria in direct bioautographic investigation of chamomile extracts. Journal of Planar Chromatography - Modern TLC, 2010, 23, 180-183.	1.2	26
17	Bioassay-Guided Isolation and Identification of Antimicrobial Compounds from Thyme Essential Oil by Means of Overpressured Layer Chromatography, Bioautography and GCâ€“MS. Chromatographia, 2012, 75, 991-999.	1.3	26
18	Applicability of the BioArena system to investigation of the mechanisms of biological effects. Journal of Planar Chromatography - Modern TLC, 2008, 21, 417-422.	1.2	25

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19	Forced-flow planar liquid chromatographic techniques (after twenty-two years). Journal of Planar Chromatography - Modern TLC, 2010, 23, 382-395.	1.2	23
20	The potential of BioArena in the study of the formaldehydome. Journal of Planar Chromatography - Modern TLC, 2005, 18, 67-72.	1.2	21
21	Investigation ofChelidoniumalkaloids by use of a complex bioautographic system. Journal of Planar Chromatography - Modern TLC, 2006, 19, 267-272.	1.2	19
22	BioArena: An unlimited possibility of biochemical interactions in the adsorbent layer after chromatographic separation. Journal of Planar Chromatography - Modern TLC, 2008, 21, 15-20.	1.2	19
23	Antibiosis, antibiotics, and the formaldehyde cycle: The unique importance of planar chromatographic techniques to progress in these fields. Journal of Planar Chromatography - Modern TLC, 2004, 17, 84-88.	1.2	18
24	Hydrogen peroxide dependent N-demethylase activity in the leaves of normal and heat-shocked bean plants. Plant Science, 1987, 52, 21-27.	3.6	17
25	Multiple beneficial effects of resveratrol and their chemical-biochemical basis. Natural Product Communications, 2011, 6, 631-8.	0.5	17
26	Singleâ€•and Multiâ€channel OPLC Separation on Nonâ€segmented Sorbent Bed Using Flowing Eluent Wall for Operating Segmentation. Journal of Liquid Chromatography and Related Technologies, 2003, 26, 2611-2627.	1.0	15
27	Use of the BioArena system for indirect detection of endogenous ozone in spots after TLC or OPLC separation. Journal of Planar Chromatography - Modern TLC, 2008, 21, 77-82.	1.2	15
28	Potential role of formaldehyde in the mechanism of action of ascorbigens on the basis of BioArena studies. Biomedical Chromatography, 2009, 23, 412-418.	1.7	14
29	Application of direct bioautography and SPME-GC-MS for the study of antibacterial chamomile ingredients. Journal of Planar Chromatography - Modern TLC, 2012, 25, 220-224.	1.2	14
30	Overpressured layer chromatography (OPLC)--a flexible tool of analysis and isolation. Natural Product Communications, 2011, 6, 719-32.	0.5	14
31	Direct Measurement of Emission of Endogenous Ozone from Plants by GCâ€“MS-SIM. Chromatographia, 2010, 71, 87-91.	1.3	13
32	New approach to mechanism of action of paclitaxel by means of BioArena studies. Journal of Planar Chromatography - Modern TLC, 2008, 21, 331-336.	1.2	12
33	BioArena Studies: Unique Function of Endogenous Formaldehyde and Ozone in the Antibiotic Effect â€“ A Review. Medicinal Chemistry, 2012, 8, 75-84.	1.5	12
34	Quantitative estimation of betaines in commercial seaweed extracts using overpressured layer chromatography. Journal of Applied Phycology, 1994, 6, 469-473.	2.8	10
35	BioArena System for Knowing and Understanding the Biological World: A Review with New Experimental Results. Journal of AOAC INTERNATIONAL, 2013, 96, 1189-1199.	1.5	10
36	Overpressured-layer chromatographic determination of ascorbigen (bound vitamin C) inBrassicavegetables. Journal of Planar Chromatography - Modern TLC, 2004, 17, 360-364.	1.2	10

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37	Formaldehyde from marine algae. Biochemical Systematics and Ecology, 1998, 26, 117-123.	1.3	9
38	Biological Characterization of Ingredients in OPLC-BioArena-Greenhouse-System: Unique Reactions of Endogenous HCHO and O3 in In Vitro and In Vivo Conditions. Chromatographia, 2012, 75, 983-990.	1.3	6
39	The isolation of NÏµ-formyl-l-lysine from the reaction between formaldehyde and l-lysine and its identification by OPLC and NMR spectroscopy. Journal of Pharmaceutical and Biomedical Analysis, 1985, 3, 343-349.	2.8	5
40	Identification of 1â€²-methylascorbigen in broccoli. Journal of Planar Chromatography - Modern TLC, 2006, 19, 139-145.	1.2	5
41	Spectroscopic and OPLC identification and measurement of formaldehyde and potential formaldehyde generators in macroscopic fungi. Journal of Planar Chromatography - Modern TLC, 2002, 15, 28-33.	1.2	5
42	Measurement of Formaldehyde, Hydrogen Peroxide and Non-protein Thiols in Tobacco Leaves during Ageing. Biochemie Und Physiologie Der Pflanzen, 1991, 187, 131-138.	0.5	4
43	Overpressured Layer Chromatography. , 2003, , .		4
44	Effect oftrans-resveratrol and ascorbigens on the fire blight pathogenErwinia amylovorain the BioArena system. Journal of Planar Chromatography - Modern TLC, 2010, 23, 411-414.	1.2	4
45	Overpressured-layer chromatography. , 2016, , 49-186.		4
46	Forced-Flow Development inÂOverpressured Layer Chromatography. , 2015, , 107-133.		3
47	Effect of ascorbigen and 1'-methylascorbigen on disease resistance of bean plants to Uromyces phaseoli. Natural Product Communications, 2011, 6, 611-5.	0.5	3
48	Overpressured Layer Chromatography (OPLC) â€“ A Flexible Tool of Analysis and Isolation. Natural Product Communications, 2011, 6, 1934578X1100600.	0.5	2
49	Indirect and direct methods for the detection and measurement of endogenous ozone in biological samples. Journal of Planar Chromatography - Modern TLC, 2012, 25, 232-237.	1.2	2
50	Enzymic Methylation of Ascorbigen and Demethylation of Its N-Methyl Derivative by Pseudomonas savastanoi pv. phaseolicola Bacteria. Chromatographia, 2012, 75, 1001-1007.	1.3	1
51	STUDY OF TRACE ELEMENTS IN BIOARENA SYSTEM AND IN IN VIVO CONDITIONS. Journal of Liquid Chromatography and Related Technologies, 2014, 37, 2857-2871.	1.0	1
52	BioArena system for studying key molecules as well as ingredients in biological samples. , 2016, , 397-485.		1
53	Determining progress directions in layer liquid chromatographyâ€”Dreams and realities. , 2016, , 487-501.		0
54	Unique potentialities of layer liquid systemâ€”results, limitations, new demands. , 2016, , 1-47.		0