

Artak E Kostanyan

List of Publications by Citations

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64
papers

704
citations

17
h-index

22
g-index

67
ext. papers

754
ext. citations

2.3
avg, IF

5.04
L-index

#	Paper	IF	Citations
64	Multiple dual mode counter-current chromatography with variable duration of alternating phase elution steps. <i>Journal of Chromatography A</i> , 2014 , 1347, 87-95	4.5	41
63	Modelling counter-current and dual counter-current chromatography using longitudinal mixing cell and eluting counter-current distribution models. <i>Journal of Chromatography A</i> , 2007 , 1151, 142-7	4.5	34
62	On influence of sample loading conditions on peak shape and separation efficiency in preparative isocratic counter-current chromatography. <i>Journal of Chromatography A</i> , 2012 , 1254, 71-7	4.5	33
61	Controlled-cycle pulsed liquid-liquid chromatography. A modified version of Craigs counter-current distribution. <i>Journal of Chromatography A</i> , 2011 , 1218, 6135-43	4.5	32
60	Steady state preparative multiple dual mode counter-current chromatography: Productivity and selectivity. Theory and experimental verification. <i>Journal of Chromatography A</i> , 2015 , 1406, 118-28	4.5	30
59	Intermittent counter-current extraction-Equilibrium cell model, scaling and an improved bobbin design. <i>Journal of Chromatography A</i> , 2013 , 1303, 18-27	4.5	28
58	Analysis of new counter-current chromatography operating modes. <i>Journal of Chromatography A</i> , 2007 , 1151, 126-30	4.5	28
57	Controlled-cycle counter-current chromatography. <i>Journal of Chromatography A</i> , 2008 , 1211, 55-9	4.5	25
56	Multiple dual mode counter-current chromatography with periodic sample injection: Steady-state and non-steady-state operation. <i>Journal of Chromatography A</i> , 2014 , 1373, 81-9	4.5	24
55	Steady-state and non-steady state operation of counter-current chromatography devices. <i>Journal of Chromatography A</i> , 2013 , 1314, 94-105	4.5	23
54	General regularities of liquid chromatography and countercurrent extraction. <i>Theoretical Foundations of Chemical Engineering</i> , 2006 , 40, 587-593	0.9	23
53	Simple equations to simulate closed-loop recycling liquid-liquid chromatography: Ideal and non-ideal recycling models. <i>Journal of Chromatography A</i> , 2015 , 1423, 71-8	4.5	21
52	Support-free pulsed liquid-liquid chromatography. <i>Journal of Chromatography A</i> , 2009 , 1216, 7761-6	4.5	21
51	Analysis of cyclic liquid chromatography. <i>Theoretical Foundations of Chemical Engineering</i> , 2011 , 45, 68-74.9	0.9	20
50	Modeling of closed-loop recycling liquid-liquid chromatography: Analytical solutions and model analysis. <i>Journal of Chromatography A</i> , 2015 , 1406, 156-64	4.5	19
49	Modeling of preparative closed-loop recycling liquid-liquid chromatography with specified duration of sample loading. <i>Journal of Chromatography A</i> , 2016 , 1471, 94-101	4.5	19
48	Theoretical study of closed-loop recycling liquid-liquid chromatography and experimental verification of the theory. <i>Journal of Chromatography A</i> , 2016 , 1462, 55-62	4.5	19

47	Multiphase Extraction: Design of Single- and Multistage Separation Using Liquid Pseudomembranes. <i>Doklady Chemistry</i> , 2005 , 404, 203-205	0.8	16
46	Analysis of cyclic column chromatography. <i>Theoretical Foundations of Chemical Engineering</i> , 2008 , 42, 524-529	0.9	14
45	Simultaneous concentration and separation of target compounds from multicomponent mixtures by closed-loop recycling countercurrent chromatography. <i>Journal of Chromatography A</i> , 2018 , 1560, 26-34	4.5	14
44	Extraction of uranyl, ytterbium, and lanthanum nitrates in a three-compartment multiphase extractor. <i>Theoretical Foundations of Chemical Engineering</i> , 2008 , 42, 718-723	0.9	13
43	Scaling-up Effect in Chemical Engineering. <i>Theoretical Foundations of Chemical Engineering</i> , 2002 , 36, 307-313	0.9	13
42	Industrial countercurrent chromatography separations based on a cascade of centrifugal mixer-settler extractors. <i>Journal of Chromatography A</i> , 2018 , 1572, 212-216	4.5	13
41	Modeling of two semi-continuous methods in liquid-liquid chromatography: Comparing conventional and closed-loop recycling modes. <i>Journal of Chromatography A</i> , 2020 , 1614, 460735	4.5	12
40	Extraction Chromatographic Separation of Rare-Earth Metals in a Cascade of Centrifugal Extractors. <i>Russian Journal of Inorganic Chemistry</i> , 2018 , 63, 287-292	1.5	11
39	Theoretical study of separation and concentration of solutes by closed-loop recycling liquid-liquid chromatography with multiple sample injection. <i>Journal of Chromatography A</i> , 2017 , 1506, 82-92	4.5	11
38	Pulsed cyclic device for liquid countercurrent chromatography. <i>Theoretical Foundations of Chemical Engineering</i> , 2011 , 45, 779-785	0.9	11
37	Separation of liquid mixtures by dynamic countercurrent cyclic extraction. <i>Theoretical Foundations of Chemical Engineering</i> , 2015 , 49, 560-566	0.9	10
36	Staged Versions of Liquid Membrane Extraction Processes. <i>Solvent Extraction and Ion Exchange</i> , 2013 , 31, 297-305	2.5	10
35	Modelling of elution-extrusion counter-current chromatography using perfect replacement approach. <i>Journal of Chromatography A</i> , 2011 , 1218, 6412-8	4.5	10
34	On the application of liquid-membrane principle in a system of mixing-settling extractors. <i>Theoretical Foundations of Chemical Engineering</i> , 2013 , 47, 495-498	0.9	9
33	Closed-loop recycling dual-mode counter-current chromatography. A theoretical study. <i>Journal of Chromatography A</i> , 2019 , 1588, 174-179	4.5	8
32	Modeling of closed-loop recycling dual-mode counter-current chromatography based on non-ideal recycling model. <i>Journal of Chromatography A</i> , 2019 , 1603, 240-250	4.5	8
31	An easy-to-use calculating machine to simulate steady state and non-steady-state preparative separations by multiple dual mode counter-current chromatography with semi-continuous loading of feed mixtures. <i>Journal of Chromatography A</i> , 2018 , 1552, 92-98	4.5	8
30	Pulsation cyclic liquid-liquid chromatography. <i>Theoretical Foundations of Chemical Engineering</i> , 2009 , 43, 729-733	0.9	8

29	Linear models of three-phase extraction processes. <i>Theoretical Foundations of Chemical Engineering</i> , 2007 , 41, 755-759	0.9	8
28	Analysis of the three-step cyclic process of countercurrent extraction. <i>Theoretical Foundations of Chemical Engineering</i> , 2015 , 49, 183-190	0.9	7
27	Study of metal extraction in high-frequency vibration mini-columns. <i>Russian Journal of Inorganic Chemistry</i> , 2010 , 55, 794-797	1.5	7
26	Extraction of lactic acid from technological (concentrated) solutions. <i>Theoretical Foundations of Chemical Engineering</i> , 2010 , 44, 782-785	0.9	7
25	Analysis of cyclic process of multistep counterflow mass transfer. <i>Theoretical Foundations of Chemical Engineering</i> , 2014 , 48, 127-137	0.9	5
24	Theoretical study of industrial scale closed-loop recycling counter-current chromatography separations. <i>Journal of Chromatography A</i> , 2020 , 1633, 461630	4.5	5
23	New binary extractants and prospects of their application. <i>Theoretical Foundations of Chemical Engineering</i> , 2016 , 50, 582-587	0.9	4
22	Investigation into the Extraction-Chromatographic Separation of a Binary Mixture in a Series of Multistage Columns. <i>Theoretical Foundations of Chemical Engineering</i> , 2019 , 53, 950-953	0.9	3
21	Column miniextractors with a vibrating nozzle. <i>Theoretical Foundations of Chemical Engineering</i> , 2010 , 44, 616-618	0.9	3
20	Increasing Efficiency of the Separation of Substance Mixtures by Methods of Liquid-Liquid Chromatography. <i>Journal of Analytical Chemistry</i> , 2020 , 75, 1384-1398	1.1	3
19	On increasing the efficiency of multistage extractive separation of metals. <i>Theoretical Foundations of Chemical Engineering</i> , 2016 , 50, 890-893	0.9	2
18	Columns for cyclic extraction-chromatographic device. <i>Theoretical Foundations of Chemical Engineering</i> , 2014 , 48, 733-736	0.9	2
17	Analysis of the process of the countercurrent cyclic chromatography. <i>Theoretical Foundations of Chemical Engineering</i> , 2014 , 48, 737-743	0.9	2
16	Half-periodic process of the multistage cyclic countercurrent extraction. <i>Theoretical Foundations of Chemical Engineering</i> , 2015 , 49, 779-785	0.9	1
15	Multistage bubble suspended-bed column reactor for hydrocarbon oxidation processes. <i>Theoretical Foundations of Chemical Engineering</i> , 2013 , 47, 660-662	0.9	1
14	Non-Steady-State Convective Diffusion in a One-Dimensional Closed Loop. <i>Theoretical Foundations of Chemical Engineering</i> , 2017 , 51, 1021-1029	0.9	1
13	Experimental Study of the Chromatographic Extraction Process of Separation in a Closed Multistage Loop. <i>Theoretical Foundations of Chemical Engineering</i> , 2021 , 55, 1107-1110	0.9	1
12	On the Operation of Centrifugal Extractors in Liquid-Liquid Chromatography Mode. <i>Theoretical Foundations of Chemical Engineering</i> , 2021 , 55, 835-839	0.9	1

11	Chromatographic behavior of six lanthanides on a centrifugal mixer-settler extractor cascade. <i>Journal of Chromatography A</i> , 2020 , 1634, 461686	4.5	1
10	A simple and highly efficient counter-current chromatography method for the isolation of concentrated fractions of compounds based on the sequential sample loading technique: Comparative theoretical study of conventional multiple and intermittent sample loading counter-current chromatography separations. <i>Journal of Chromatography A</i> , 2021 , 1647, 462163	4.5	1
9	Theoretical Analysis of Periodic Processes of Extraction-Chromatographic Separation in a Closed Cascade of Apparatuses. <i>Doklady Chemistry</i> , 2021 , 499, 171-175	0.8	0
8	Analysis of the Processes of Extraction-Chromatographic Separation in a Cascade of Mixing-Settling Extractors. <i>Theoretical Foundations of Chemical Engineering</i> , 2021 , 55, 862-869	0.9	0
7	Hydraulically sectioned columnar extractor. <i>Theoretical Foundations of Chemical Engineering</i> , 2000 , 34, 255-262	0.9	
6	Some principles of modeling extraction columns with rotary vibrations of the packing. <i>Chemical and Petroleum Engineering (English Translation of Khimicheskoe I Neftyanoe Mashinostroenie)</i> , 1985 , 21, 331-335	0.6	0.6
5	Vibration column extractors. <i>Chemical and Petroleum Engineering (English Translation of Khimicheskoe I Neftyanoe Mashinostroenie)</i> , 1980 , 16, 332-334	0.6	
4	The hydraulic and mass-exchange characteristics of a column extractor with rotary-vibrational shaft motion. <i>Chemical and Petroleum Engineering (English Translation of Khimicheskoe I Neftyanoe Mashinostroenie)</i> , 1980 , 16, 473-476	0.6	
3	Pilot Plant for Studies of REE Separation by Extraction Chromatography Based on a Cascade of Centrifugal Extractors. <i>Theoretical Foundations of Chemical Engineering</i> , 2021 , 55, 1097-1106	0.9	
2	Studying the Effect of Recycling on the Semibatch Process of the Extraction Separation of Components in a Multistage Loop. <i>Theoretical Foundations of Chemical Engineering</i> , 2020 , 54, 1107-1110	0.9	0.9
1	Analysis of Extraction Chromatographic Separation of a Binary Mixture in a Series of Multistage Columns. <i>Theoretical Foundations of Chemical Engineering</i> , 2019 , 53, 939-944	0.9	