

# Artak E Kostanyan

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Theoretical Analysis of Periodic Processes of Extraction-Chromatographic Separation in a Closed Cascade of Apparatuses. <i>Doklady Chemistry</i> , <b>2021</b> , 499, 171-175	0.8	0
63	Pilot Plant for Studies of REE Separation by Extraction Chromatography Based on a Cascade of Centrifugal Extractors. <i>Theoretical Foundations of Chemical Engineering</i> , <b>2021</b> , 55, 1097-1106	0.9	
62	Experimental Study of the Chromatographic Extraction Process of Separation in a Closed Multistage Loop. <i>Theoretical Foundations of Chemical Engineering</i> , <b>2021</b> , 55, 1107-1110	0.9	1
61	Analysis of the Processes of Extraction-Chromatographic Separation in a Cascade of Mixing-Settling Extractors. <i>Theoretical Foundations of Chemical Engineering</i> , <b>2021</b> , 55, 862-869	0.9	0
60	On the Operation of Centrifugal Extractors in Liquid-Liquid Chromatography Mode. <i>Theoretical Foundations of Chemical Engineering</i> , <b>2021</b> , 55, 835-839	0.9	1
59	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> , <b>2021</b> , 1647, 462163	4.5	1
58	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> , <b>2020</b> , 54, 1107-1110	0.9	
57	Modeling of two semi-continuous methods in liquid-liquid chromatography: Comparing conventional and closed-loop recycling modes. <i>Journal of Chromatography A</i> , <b>2020</b> , 1614, 460735	4.5	12
56	Theoretical study of industrial scale closed-loop recycling counter-current chromatography separations. <i>Journal of Chromatography A</i> , <b>2020</b> , 1633, 461630	4.5	5
55	Chromatographic behavior of six lanthanides on a centrifugal mixer-settler extractor cascade. <i>Journal of Chromatography A</i> , <b>2020</b> , 1634, 461686	4.5	1
54	Increasing Efficiency of the Separation of Substance Mixtures by Methods of Liquid-Liquid Chromatography. <i>Journal of Analytical Chemistry</i> , <b>2020</b> , 75, 1384-1398	1.1	3
53	Closed-loop recycling dual-mode counter-current chromatography. A theoretical study. <i>Journal of Chromatography A</i> , <b>2019</b> , 1588, 174-179	4.5	8
52	Modeling of closed-loop recycling dual-mode counter-current chromatography based on non-ideal recycling model. <i>Journal of Chromatography A</i> , <b>2019</b> , 1603, 240-250	4.5	8
51	Investigation into the Extraction-Chromatographic Separation of a Binary Mixture in a Series of Multistage Columns. <i>Theoretical Foundations of Chemical Engineering</i> , <b>2019</b> , 53, 950-953	0.9	3
50	Analysis of Extraction Chromatographic Separation of a Binary Mixture in a Series of Multistage Columns. <i>Theoretical Foundations of Chemical Engineering</i> , <b>2019</b> , 53, 939-944	0.9	
49	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> , <b>2018</b> , 1552, 92-98	4.5	8
48	Extraction Chromatographic Separation of Rare-Earth Metals in a Cascade of Centrifugal Extractors. <i>Russian Journal of Inorganic Chemistry</i> , <b>2018</b> , 63, 287-292	1.5	11

47	Industrial countercurrent chromatography separations based on a cascade of centrifugal mixer-settler extractors. <i>Journal of Chromatography A</i> , <b>2018</b> , 1572, 212-216	4.5	13
46	Simultaneous concentration and separation of target compounds from multicomponent mixtures by closed-loop recycling countercurrent chromatography. <i>Journal of Chromatography A</i> , <b>2018</b> , 1560, 26-34	4.5	14
45	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> , <b>2017</b> , 1506, 82-92	4.5	11
44	Non-Steady-State Convective Diffusion in a One-Dimensional Closed Loop. <i>Theoretical Foundations of Chemical Engineering</i> , <b>2017</b> , 51, 1021-1029	0.9	1
43	On increasing the efficiency of multistage extractive separation of metals. <i>Theoretical Foundations of Chemical Engineering</i> , <b>2016</b> , 50, 890-893	0.9	2
42	Modeling of preparative closed-loop recycling liquid-liquid chromatography with specified duration of sample loading. <i>Journal of Chromatography A</i> , <b>2016</b> , 1471, 94-101	4.5	19
41	Theoretical study of closed-loop recycling liquid-liquid chromatography and experimental verification of the theory. <i>Journal of Chromatography A</i> , <b>2016</b> , 1462, 55-62	4.5	19
40	New binary extractants and prospects of their application. <i>Theoretical Foundations of Chemical Engineering</i> , <b>2016</b> , 50, 582-587	0.9	4
39	Steady state preparative multiple dual mode counter-current chromatography: Productivity and selectivity. Theory and experimental verification. <i>Journal of Chromatography A</i> , <b>2015</b> , 1406, 118-28	4.5	30
38	Modeling of closed-loop recycling liquid-liquid chromatography: Analytical solutions and model analysis. <i>Journal of Chromatography A</i> , <b>2015</b> , 1406, 156-64	4.5	19
37	Analysis of the three-step cyclic process of countercurrent extraction. <i>Theoretical Foundations of Chemical Engineering</i> , <b>2015</b> , 49, 183-190	0.9	7
36	Simple equations to simulate closed-loop recycling liquid-liquid chromatography: Ideal and non-ideal recycling models. <i>Journal of Chromatography A</i> , <b>2015</b> , 1423, 71-8	4.5	21
35	Half-periodic process of the multistage cyclic countercurrent extraction. <i>Theoretical Foundations of Chemical Engineering</i> , <b>2015</b> , 49, 779-785	0.9	1
34	Separation of liquid mixtures by dynamic countercurrent cyclic extraction. <i>Theoretical Foundations of Chemical Engineering</i> , <b>2015</b> , 49, 560-566	0.9	10
33	Columns for cyclic extraction-chromatographic device. <i>Theoretical Foundations of Chemical Engineering</i> , <b>2014</b> , 48, 733-736	0.9	2
32	Analysis of the process of the countercurrent cyclic chromatography. <i>Theoretical Foundations of Chemical Engineering</i> , <b>2014</b> , 48, 737-743	0.9	2
31	Analysis of cyclic process of multistep counterflow mass transfer. <i>Theoretical Foundations of Chemical Engineering</i> , <b>2014</b> , 48, 127-137	0.9	5
30	Multiple dual mode counter-current chromatography with variable duration of alternating phase elution steps. <i>Journal of Chromatography A</i> , <b>2014</b> , 1347, 87-95	4.5	41

29	Multiple dual mode counter-current chromatography with periodic sample injection: Steady-state and non-steady-state operation. <i>Journal of Chromatography A</i> , <b>2014</b> , 1373, 81-9	4.5	24
28	Multistage bubble suspended-bed column reactor for hydrocarbon oxidation processes. <i>Theoretical Foundations of Chemical Engineering</i> , <b>2013</b> , 47, 660-662	0.9	1
27	On the application of liquid-membrane principle in a system of mixing-settling extractors. <i>Theoretical Foundations of Chemical Engineering</i> , <b>2013</b> , 47, 495-498	0.9	9
26	Steady-state and non-steady state operation of counter-current chromatography devices. <i>Journal of Chromatography A</i> , <b>2013</b> , 1314, 94-105	4.5	23
25	Intermittent counter-current extraction-Equilibrium cell model, scaling and an improved bobbin design. <i>Journal of Chromatography A</i> , <b>2013</b> , 1303, 18-27	4.5	28
24	Staged Versions of Liquid Membrane Extraction Processes. <i>Solvent Extraction and Ion Exchange</i> , <b>2013</b> , 31, 297-305	2.5	10
23	On influence of sample loading conditions on peak shape and separation efficiency in preparative isocratic counter-current chromatography. <i>Journal of Chromatography A</i> , <b>2012</b> , 1254, 71-7	4.5	33
22	Controlled-cycle pulsed liquid-liquid chromatography. A modified version of Craigs counter-current distribution. <i>Journal of Chromatography A</i> , <b>2011</b> , 1218, 6135-43	4.5	32
21	Modelling of elution-extrusion counter-current chromatography using perfect replacement approach. <i>Journal of Chromatography A</i> , <b>2011</b> , 1218, 6412-8	4.5	10
20	Analysis of cyclic liquid chromatography. <i>Theoretical Foundations of Chemical Engineering</i> , <b>2011</b> , 45, 68-74	0.9	20
19	Pulsed cyclic device for liquid countercurrent chromatography. <i>Theoretical Foundations of Chemical Engineering</i> , <b>2011</b> , 45, 779-785	0.9	11
18	Study of metal extraction in high-frequency vibration mini-columns. <i>Russian Journal of Inorganic Chemistry</i> , <b>2010</b> , 55, 794-797	1.5	7
17	Column miniextractors with a vibrating nozzle. <i>Theoretical Foundations of Chemical Engineering</i> , <b>2010</b> , 44, 616-618	0.9	3
16	Extraction of lactic acid from technological (concentrated) solutions. <i>Theoretical Foundations of Chemical Engineering</i> , <b>2010</b> , 44, 782-785	0.9	7
15	Support-free pulsed liquid-liquid chromatography. <i>Journal of Chromatography A</i> , <b>2009</b> , 1216, 7761-6	4.5	21
14	Pulsation cyclic liquid-liquid chromatography. <i>Theoretical Foundations of Chemical Engineering</i> , <b>2009</b> , 43, 729-733	0.9	8
13	Controlled-cycle counter-current chromatography. <i>Journal of Chromatography A</i> , <b>2008</b> , 1211, 55-9	4.5	25
12	Analysis of cyclic column chromatography. <i>Theoretical Foundations of Chemical Engineering</i> , <b>2008</b> , 42, 524-529	0.9	14

11	Extraction of uranyl, ytterbium, and lanthanum nitrates in a three-compartment multiphase extractor. <i>Theoretical Foundations of Chemical Engineering</i> , <b>2008</b> , 42, 718-723	0.9	13
10	Analysis of new counter-current chromatography operating modes. <i>Journal of Chromatography A</i> , <b>2007</b> , 1151, 126-30	4.5	28
9	Modelling counter-current and dual counter-current chromatography using longitudinal mixing cell and eluting counter-current distribution models. <i>Journal of Chromatography A</i> , <b>2007</b> , 1151, 142-7	4.5	34
8	Linear models of three-phase extraction processes. <i>Theoretical Foundations of Chemical Engineering</i> , <b>2007</b> , 41, 755-759	0.9	8
7	General regularities of liquid chromatography and countercurrent extraction. <i>Theoretical Foundations of Chemical Engineering</i> , <b>2006</b> , 40, 587-593	0.9	23
6	Multiphase Extraction: Design of Single- and Multistage Separation Using Liquid Pseudomembranes. <i>Doklady Chemistry</i> , <b>2005</b> , 404, 203-205	0.8	16
5	Scaling-up Effect in Chemical Engineering. <i>Theoretical Foundations of Chemical Engineering</i> , <b>2002</b> , 36, 307-313	0.9	13
4	Hydraulically sectioned columnar extractor. <i>Theoretical Foundations of Chemical Engineering</i> , <b>2000</b> , 34, 255-262	0.9	
3	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> , <b>1985</b> , 21, 331-335	0.6	9.6
2	Vibration column extractors. <i>Chemical and Petroleum Engineering (English Translation of Khimicheskoe I Neftyanoe Mashinostroenie)</i> , <b>1980</b> , 16, 332-334	0.6	
1	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> , <b>1980</b> , 16, 473-476	0.6	