

Sreenivasulu Balija

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Experimental and theoretical studies on solvent extraction of uranium(VI) with hexapropyl and hexabutyl phosphoramidate extractants. <i>Solvent Extraction and Ion Exchange</i> , 2022, 40, 312-332.	2.0	4
2	Highly efficient functionalized MOF-LIC-1 for extraction of U(VI) and Th(IV) from aqueous solution: experimental and theoretical studies. <i>Dalton Transactions</i> , 2022, 51, 3557-3571.	3.3	12
3	Oxidation and dissolution behavior of U-Zr alloys for aqueous reprocessing applications. <i>Progress in Nuclear Energy</i> , 2022, 144, 104087.	2.9	1
4	Demonstration of Aqueous Reprocessing of U-Zr and U-Pu-Zr Metallic Alloy Fuels Using an Ejector Mixer-settler with Tri-n-Butyl Phosphate (TBP) as the Extractant. <i>Solvent Extraction and Ion Exchange</i> , 2021, 39, 271-289.	2.0	3
5	Post synthetically modified IRMOF-3 for efficient recovery and selective sensing of U(VI) from aqueous medium. <i>RSC Advances</i> , 2021, 11, 28126-28137.	3.6	18
6	Extraction behavior of Pu(IV), Th(IV), and fission product elements with hexapropyl and hexabutyl phosphoramidates. <i>Radiochimica Acta</i> , 2021, 109, 419-430.	1.2	3
7	Mixer-settler runs with tri-iso-amyl phosphate and tri-n-butyl phosphate for the aqueous reprocessing of U-Zr alloy fuels. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2021, 330, 1207.	1.5	1
8	Extraction Behaviour of Tris(2-methylbutyl) Phosphate with Fission Products and Heavy Metal Ions. <i>Solvent Extraction and Ion Exchange</i> , 2020, 38, 304-317.	2.0	12
9	Assorted functionality-appended UiO-66-NH ₂ for highly efficient uranium(VI) sorption at acidic/neutral/basic pH. <i>RSC Advances</i> , 2020, 10, 14650-14661.	3.6	34
10	An insight into third-phase formation in the extraction of thorium nitrate by tris(2-methylbutyl) phosphate and tri-n-alkyl phosphates. <i>Separation Science and Technology</i> , 2019, 54, 970-984.	2.5	17
11	Effects of temperature on the extraction of U(VI) and Pu(IV) by tris(2-methylbutyl) phosphate from nitric acid media. <i>Radiochimica Acta</i> , 2018, 106, 281-289.	1.2	11
12	Influence of Branching on the Conformational Space: Case Study of Tri-sec-butyl Phosphate Using Matrix Isolation Infrared Spectroscopy and DFT Computations. <i>Journal of Physical Chemistry A</i> , 2018, 122, 8229-8242.	2.5	5
13	Physicochemical properties and radiolytic degradation studies on tri-iso-amyl phosphate (TiAP). <i>Radiochimica Acta</i> , 2017, 105, 249-261.	1.2	20
14	Third phase formation in the extraction of Th(NO ₃) ₄ by Tri-sec-butyl phosphate: a comparison with Tri-n-butyl phosphate. <i>Radiochimica Acta</i> , 2017, 105, 321-328.	1.2	9
15	Dissolution and characterisation studies on U-Zr and U-Pu-Zr alloys in nitric acid medium. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2017, 311, 789-800.	1.5	15
16	Studies Related to the Processing of U-Zr and U-Pu-Zr Metallic Fuels Using Tri-iso-amyl Phosphate (TiAP) as Extractant. <i>Solvent Extraction and Ion Exchange</i> , 2016, 34, 422-438.	2.0	10
17	Effect of gamma irradiation on thermal decomposition of tri-iso-amyl phosphate-nitric acid biphasic systems. <i>Journal of Thermal Analysis and Calorimetry</i> , 2016, 125, 483-495.	3.6	6
18	Trends in small angle neutron scattering of actinide-trialkyl phosphate complexes: a molecular insight into third phase formation. <i>RSC Advances</i> , 2016, 6, 92905-92916.	3.6	16

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19	Comparison in the solvent extraction behavior of uranium (VI) in some trialkyl phosphates in ionic liquid. <i>Radiochimica Acta</i> , 2016, 104, 865-872.	1.2	6
20	Complexation Behavior of the Tri- <i>n</i> -butyl Phosphate Ligand with Pu(IV) and Zr(IV): A Computational Study. <i>Journal of Physical Chemistry A</i> , 2016, 120, 4201-4210.	2.5	39
21	Extraction and third phase formation behaviour of tri- <i>iso</i> -amyl phosphate and tri- <i>n</i> -butyl phosphate with Zr(IV) and Hf(IV): A comparative study. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2016, 309, 1037-1048.	1.5	18
22	Solvent extraction studies with some fission product elements from nitric acid media employing tri- <i>iso</i> -amyl phosphate and tri- <i>n</i> -butyl phosphate as extractants. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2015, 303, 2165.	1.5	16
23	Mixer-settler runs for the evaluation of tri- <i>iso</i> -amyl phosphate (TiAP) as an alternate extractant to tri- <i>n</i> -butyl phosphate (TBP) for reprocessing applications. <i>Radiochimica Acta</i> , 2015, 103, 101-108.	1.2	20
24	Separation of U(VI) and Pu(IV) from Am(III) and Trivalent Lanthanides with Tri- <i>iso</i> -amyl Phosphate (TiAP) as the Extractant by Using an Ejector Mixer-Settler. <i>Solvent Extraction and Ion Exchange</i> , 2015, 33, 120-133.	2.0	18
25	Empirical equations for the prediction of third phase formation limits in the extraction of thorium nitrate by tri- <i>iso</i> -amyl phosphate (TiAP). <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2015, 306, 489-495.	1.5	4
26	Separation of U(VI) and Th(IV) from Nd(III) by Cross-Current Solvent Extraction Mode Using Tri- <i>iso</i> -amyl Phosphate as the Extractant. <i>Solvent Extraction and Ion Exchange</i> , 2015, 33, 448-461.	2.0	4
27	Third Phase Formation in the Extraction of Th(NO ₃) ₄ by Tri- <i>n</i> -Butyl Phosphate and Tri- <i>iso</i> -Amyl Phosphate in <i>n</i> -Dodecane and <i>n</i> -Tetradecane from Nitric Acid Media. <i>Solvent Extraction and Ion Exchange</i> , 2014, 32, 249-266.	2.0	25
28	Compositional Characterization of Organic Phases after the Phase Splitting in the Extraction of Th(NO ₃) ₄ by 1.1 M Tri- <i>n</i> -butyl phosphate/ <i>n</i> -Alkane. <i>Solvent Extraction and Ion Exchange</i> , 2014, 32, 703-719.	2.0	10
29	Extraction and stripping behaviour of tri- <i>iso</i> -amyl phosphate and tri- <i>n</i> -butyl phosphate in <i>n</i> -dodecane with U(VI) in nitric acid media. <i>Radiochimica Acta</i> , 2014, 102, 619-628.	1.2	20
30	Studies on Third Phase Formation in the Extraction of Th(NO ₃) ₄ by Tri- <i>iso</i> -amyl Phosphate in <i>n</i> -alkane Diluents. <i>Separation Science and Technology</i> , 2013, 48, 2761-2770.	2.5	11
31	Third phase formation in the extraction of nitric acid and metal ions by octyl(phenyl)- <i>N,N</i> , <i>N</i> -diisobutyl carbamoyl methyl phosphine oxide (O ¹ CMPO) based solvents. <i>Desalination and Water Treatment</i> , 2011, 25, 216-225.	1.0	3
32	Comparative Studies on Third-Phase Formation in the Extraction of Thorium Nitrate by Tri- <i>n</i> -Butyl Phosphate and Tri- <i>n</i> -Amyl Phosphate in Straight Chain Alkane Diluents. <i>Solvent Extraction and Ion Exchange</i> , 2010, 28, 459-481.	2.0	18
33	The Effect of the Structure of Trialkyl Phosphates on their Physicochemical Properties and Extraction Behavior. <i>Solvent Extraction and Ion Exchange</i> , 2009, 27, 258-294.	2.0	90
34	Parameters Influencing Third-Phase Formation in the Extraction of Th(NO ₃) ₄ by some Trialkyl Phosphates. <i>Solvent Extraction and Ion Exchange</i> , 2009, 27, 132-158.	2.0	70
35	U/Th Separation by Counter-Current Liquid-Liquid Extraction with Tri- <i>n</i> -Butyl Phosphate by Using an Ejector Mixer-Settler. <i>Separation Science and Technology</i> , 2005, 39, 2477-2496.	2.5	20
36	Studies on the Extraction Behavior of Octyl(Phenyl)- <i>N,N</i> , <i>N</i> -diisobutylcarbamoylmethylphosphine Oxide in Polymeric Adsorbent Resins. <i>Solvent Extraction and Ion Exchange</i> , 2003, 21, 449-463.	2.0	21

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37	Tricyclohexylphosphateâ€”A Unique Member in the Neutral Organophosphate Family. Solvent Extraction and Ion Exchange, 2003, 21, 221-238.	2.0	20
38	A new procedure for the spectrophotometric determination of uranium(VI) in the presence of a large excess of thorium(IV). Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2002, 58, 341-347.	3.9	54
39	THIRD PHASE FORMATION IN THE EXTRACTION OF Nd(III) BY OCTYL(PHENYL)-N,N-DHSOBUTYL CARBAMOYL METHYL PHOSPHINE OXIDE (OÏ CMPO). Solvent Extraction and Ion Exchange, 1999, 17, 73-86.	2.0	23
40	THIRD PHASE FORMATION IN EXTRACTION OF THORIUM NITRATE BY MIXTURES OF TRIALKYL PHOSPHATES. Solvent Extraction and Ion Exchange, 1998, 16, 1001-1011.	2.0	23
41	Extraction of nitric acid by some trialkyl phosphates. Journal of Radioanalytical and Nuclear Chemistry, 1997, 222, 231-234.	1.5	22
42	METAL-SOLVATE STOICHIOMETRY EVALUATION IN EXTRACTIONS BY SOLVATING TYPE NEUTRAL EXTRACTANTS-A NOVEL APPROACH. Solvent Extraction and Ion Exchange, 1996, 14, 443-458.	2.0	18
43	STUDIES ON U-Th SEPARATION USING TRI-sec-BUTYL PHOSPHATE. Solvent Extraction and Ion Exchange, 1995, 13, 415-430.	2.0	53