

# Rajesh Kumar Jyothi

## List of Publications by Year in descending order

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45  
papers

672  
citations

687363

13  
h-index

580821

25  
g-index

47  
all docs

47  
docs citations

47  
times ranked

509  
citing authors

#	ARTICLE	IF	CITATIONS
1	Separation of vanadium and tungsten from synthetic and spent catalyst leach solutions using an ion-exchange resin. RSC Advances, 2022, 12, 3635-3645.	3.6	10
2	Sustainable environmentally friendly approaches to the recycling of spent selective catalytic reduction (SCR) catalysts. , 2022, , 765-787.		1
3	Novel Environmentally Friendly Leaching Process for Vanadium and Tungsten Recovery from Spent SCR Catalyst. Minerals, Metals and Materials Series, 2022, , 111-117.	0.4	2
4	Recovery of Rare Earth Metals (REMs) from Nickel Metal Hydride Batteries of Electric Vehicles. Minerals (Basel, Switzerland), 2022, 12, 34.	2.0	14
5	Selective recovery of thorium and uranium from leach solutions of rare earth concentrates in continuous solvent extraction mode with primary amine N1923. Hydrometallurgy, 2022, 213, 105933.	4.3	11
6	Coal Burn Ash: A Sustainable Future Resource for Critical Metals Production. , 2021, , 473-485.		0
7	Investigation on Extraction and Recovery of Rare Earth Elements from Coal Combustion Products. , 2021, , 311-337.		0
8	Studies on Extraction of Heavy Metal (s) from Fly Ash through Hydroprocessing Approach. , 2021, , 289-310.		0
9	Characteristic and Equilibrium Adsorption Studies of Biochar. , 2021, , 143-160.		0
10	Ionic Liquids for the Recovery of Rare Earth Elements from Coal Combustion Products. , 2021, , 617-638.		2
11	Environmentally sound technology development for processing of rare earth elements from waste permanent magnets synthetic leach solutions: recovery and separation perspectives. Separation and Purification Technology, 2021, 275, 119225.	7.9	7
12	Anhydrous oxygen-free rare earth material preparation and characterization. Materials Today Chemistry, 2021, 22, 100608.	3.5	0
13	Hydrometallurgical process development to recycle valuable metals from spent SCR deNOX catalyst. Scientific Reports, 2021, 11, 22131.	3.3	4
14	Development of Hydrometallurgical Process for Recovery of Rare Earth Metals (Nd, Pr, and Dy) from Nd-Fe-B Magnets. Metals, 2021, 11, 1987.	2.3	11
15	Solvent Extraction of the Thorium from Monazite Leaching Solution by PrimeneJM-T. , 2021, 30, 32-37.		0
16	Solvent extraction, separation and recovery of thorium from Korean monazite leach liquors for nuclear industry applications. Journal of Industrial and Engineering Chemistry, 2020, 83, 72-80.	5.8	15
17	Optimization of sulfuric acid leaching of a Vietnamese rare earth concentrate. Hydrometallurgy, 2020, 191, 105195.	4.3	12
18	Environmentally friendly comprehensive hydrometallurgical method development for neodymium recovery from mixed rare earth aqueous solutions using organo-phosphorus derivatives. Scientific Reports, 2020, 10, 16911.	3.3	14

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19	Separation of thorium and uranium from xenotime leach solutions by solvent extraction using primary and tertiary amines. <i>Hydrometallurgy</i> , 2020, 198, 105506.	4.3	18
20	Environmentally friendly approach to recover vanadium and tungsten from spent SCR catalyst leach liquors using Aliquat 336. <i>RSC Advances</i> , 2020, 10, 19736-19746.	3.6	26
21	Separation, purification and recovery of thorium from monazite leach liquors by counter-current extraction process. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2020, 324, 245-255.	1.5	4
22	Recovery of Rare Earth Elements from Waste Permanent Magnets Leach Liquors. <i>Minerals, Metals and Materials Series</i> , 2020, , 335-345.	0.4	2
23	Review of rare earth elements recovery from secondary resources for clean energy technologies: Grand opportunities to create wealth from waste. <i>Journal of Cleaner Production</i> , 2020, 267, 122048.	9.3	161
24	Introduction of Rare Earth Metal Recovery for Green and Clean Energy Technologies. , 2020, , 1-8.		0
25	Spent SCR Catalyst Leach Liquor Processed for Valuable Metals Extraction by Solvent Extraction Technique#. <i>Journal of the Korean Institute of Resources Recycling</i> , 2020, 29, 55-61.	0.4	1
26	Alkali fusion using sodium carbonate for extraction of vanadium and tungsten for the preparation of synthetic sodium titanate from spent SCR catalyst. <i>Scientific Reports</i> , 2019, 9, 12316.	3.3	14
27	Stabilization and Rheological Behavior of Fly Ash-Water Slurry Using a Natural Dispersant in Pipeline Transportation. <i>ACS Omega</i> , 2019, 4, 21604-21611.	3.5	33
28	Hydrometallurgical processing of spent selective catalytic reduction (SCR) catalyst for recovery of tungsten. <i>Hydrometallurgy</i> , 2018, 178, 137-145.	4.3	40
29	Modeling the UO <sub>2</sub> ex-AUC pellet process and predicting the fuel rod temperature distribution under steady-state operating condition. <i>Journal of Nuclear Materials</i> , 2018, 504, 191-197.	2.7	6
30	Hydrometallurgical process development for the extraction, separation and recovery of vanadium from spent desulfurization catalyst bio-leach liquors. <i>Journal of Cleaner Production</i> , 2018, 187, 449-458.	9.3	42
31	Spent V <sub>2</sub> O <sub>5</sub> -WO <sub>3</sub> /TiO <sub>2</sub> catalyst processing for valuable metals by soda roasting-water leaching. <i>Hydrometallurgy</i> , 2018, 175, 292-299.	4.3	71
32	Extraction of tungsten and vanadium from spent selective catalytic reduction catalyst for stationary application by pressure leaching process. <i>Journal of Cleaner Production</i> , 2018, 197, 163-169.	9.3	53
33	Recovery of Tungsten from Spent V <sub>2</sub> O <sub>5</sub> -WO <sub>3</sub> /TiO <sub>2</sub> Catalyst. <i>Minerals, Metals and Materials Series</i> , 2018, , 2455-2469.	0.4	1
34	Diluents Role in Extraction and Possible Separation of Light Rare Earth Elements from Chloride Solutions by using Cyanex® 272 used as an Extractant. <i>Journal of Korean Institute of Metals and Materials</i> , 2018, 56, 763-771.	1.0	3
35	The UO <sub>2</sub> ex-ADU powder preparation and pellet sintering for optimum efficiency: experimental and modeling studies. <i>Journal of Nuclear Materials</i> , 2017, 496, 177-181.	2.7	6
36	Brandon mathematical model describing the effect of calcination and reduction parameters on specific surface area of UO <sub>2</sub> powders. <i>Journal of Nuclear Materials</i> , 2016, 474, 150-154.	2.7	7

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37	Modeling conversion of ammonium diuranate (ADU) into uranium dioxide (UO <sub>2</sub> ) powder. Journal of Nuclear Materials, 2016, 479, 483-488.	2.7	13
38	The role of macrocyclic compounds in the extraction and possible separation of platinum and rhodium from chloride solutions. Scientific Reports, 2016, 6, 27668.	3.3	7
39	Synergistic extraction of uranium from Korean black shale ore leach liquors using amine with phosphorous based extractant systems. Journal of Radioanalytical and Nuclear Chemistry, 2016, 307, 843-854.	1.5	17
40	Factors affect on bioremediation of Co(II) and Pb(II) onto <i>Lonicera japonica</i> flowers powder. Desalination and Water Treatment, 2016, 57, 13066-13080.	1.0	18
41	Process development for recovery of dysprosium from permanent magnet scraps leach liquor by hydrometallurgical techniques. Canadian Metallurgical Quarterly, 2015, 54, 318-327.	1.2	19
42	Status and Preparation Technology of Rare Earth Materials. , 2013, , 1765-1774.		1
43	Status and Preparation Technology of Rare Earth Materials. , 2013, , 1765-1774.		1
44	Development of a highly sensitive and selective method for extractive spectrophotometric determination of aluminum(III) from environmental matrices, synthetic mixtures, and alloys using orthohydroxypropiophenoneisonicotinoylhydrazone. Environmental Monitoring and Assessment, 2010, 160, 23-31.	2.7	1
45	Electrochemical Determination of Phenothrin in Agricultural Formulations, Vegetables, and Storage Bags of Wheat and Rice by Differential Pulse Adsorptive Stripping Voltammetry (DP-AdSV). Food Analytical Methods, 2009, 2, 66-72.	2.6	4