

# Rajiv R Srivastava

## 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

2,327  
citations

25  
h-index

48  
g-index

65  
ext. papers

2,809  
ext. citations

5.6  
avg, IF

5.87  
L-index

#	Paper	IF	Citations
64	Recycling of Automobile Discarded Ceramic Converters for Pt-Group Metals Recovery Through Pressure CN-Leaching. <i>Minerals, Metals and Materials Series</i> , <b>2022</b> , 755-761	0.3	
63	Development of Antagonistic Solvent Extraction Systems for Selective Separation of Copper, Cobalt, and Nickel in Ammoniacal Solution. <i>Minerals, Metals and Materials Series</i> , <b>2022</b> , 169-177	0.3	
62	Separation of platinum group metals from model chloride solution using phosphonium-based ionic liquid. <i>Separation and Purification Technology</i> , <b>2022</b> , 278, 119577	8.3	3
61	Biotechnological recycling of hazardous waste PCBs using <i>Sulfobacillus thermosulfidooxidans</i> through pretreatment of toxicant metals: Process optimization and kinetic studies. <i>Chemosphere</i> , <b>2022</b> , 286, 131978	8.4	13
60	Growth projections against set-target of renewable energy and resultant impact on emissions reduction in India. <i>Environmental Engineering Research</i> , <b>2021</b> , 26, 200083-0	3.6	10
59	Enhanced Electrokinetic Techniques in Soil Remediation for Removal of Heavy Metals <b>2021</b> , 287-302		
58	Liquid-liquid extraction of phosphorus from sulfuric acid solution using benzyl dimethyl amine. <i>International Journal of Minerals, Metallurgy and Materials</i> , <b>2021</b> , 28, 367-372	3.1	3
57	Gold recovery from secondary waste of PCBs by electro-Cl <sub>2</sub> leaching in brine solution and solvo-chemical separation with tri-butyl phosphate. <i>Journal of Cleaner Production</i> , <b>2021</b> , 295, 126389	10.3	14
56	Two-step leaching process and kinetics for an eco-friendly recycling of critical metals from spent Li-ion batteries. <i>Journal of Environmental Chemical Engineering</i> , <b>2021</b> , 9, 105232	6.8	21
55	Cleaner production of rare earth elements from phosphorus-bearing sulfuric acid solution of vein deposit monazite. <i>Journal of Cleaner Production</i> , <b>2021</b> , 278, 123435	10.3	14
54	Extraction equilibria of cerium(IV) with Cyanex 923 followed by precipitation kinetics of cerium(III) oxalate from sulfate solution. <i>Separation and Purification Technology</i> , <b>2021</b> , 254, 117634	8.3	15
53	Simple and complete separation of copper from nickel in the ammoniacal leach solutions of metal coated ABS plastic waste by antagonistic extraction using a mixture of LIX 84-I and TBP. <i>Separation and Purification Technology</i> , <b>2021</b> , 255, 117712	8.3	3
52	Hydrometallurgical Recycling of Rare Earth Metal Cerium from Bio-processed Residual Waste of Exhausted Automobile Catalysts. <i>Jom</i> , <b>2021</b> , 73, 19-26	2.1	10
51	Solvo-Chemical Recovery of Cerium from Sulfate Solution Using Cyanex 923 and Oxalate Precipitation. <i>Minerals, Metals and Materials Series</i> , <b>2021</b> , 303-310	0.3	
50	Carbothermic Reduction Roasting of a Low-Grade Nickel Laterite Ore in the Modified Caron Process. <i>Minerals, Metals and Materials Series</i> , <b>2021</b> , 317-328	0.3	1
49	Circular bioeconomy and environmental benignness through microbial recycling of e-waste: A case study on copper and gold restoration. <i>Waste Management</i> , <b>2021</b> , 121, 175-185	8.6	25
48	O-enriched microbial activity with pH-sensitive solvo-chemical and electro-chlorination strategy to reclaim critical metals from the hazardous waste printed circuit boards. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 416, 125769	12.8	15

47	Resource Recovery of Cerium from Spent Catalytic Converter Using Aqueous Metallurgy. <i>Minerals, Metals and Materials Series</i> , <b>2021</b> , 1055-1062	0.3	
46	Role of Chemistry in Alternative Energy: The Thermodynamics and Electrochemical Approach. <i>Handbook of Environmental Chemistry</i> , <b>2020</b> , 293-315	0.8	1
45	Biotechnological recycling of critical metals from waste printed circuit boards. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2020</b> , 95, 2796-2810	3.5	27
44	Leaching of exhausted LNCM cathode batteries in ascorbic acid lixiviant: a green recycling approach, reaction kinetics and process mechanism. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2020</b> , 95, 2286-2294	3.5	23
43	Strontium Extraction from the Geo-environment. <i>Handbook of Environmental Chemistry</i> , <b>2020</b> , 43-63	0.8	3
42	Hydrometallurgical recycling of palladium and platinum from exhausted diesel oxidation catalysts. <i>Separation and Purification Technology</i> , <b>2020</b> , 248, 117029	8.3	25
41	Recovery of Cerium from Spent Autocatalyst by Sulfatizing-Leaching-Precipitation Process. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 15630-15639	8.3	5
40	Liquid-Liquid Extraction and Reductive Stripping of Chromium to Valorize Industrial Effluent. <i>Jom</i> , <b>2020</b> , 72, 839-846	2.1	18
39	Policy issues for efficient management of E-waste in developing countries <b>2020</b> , 81-99		9
38	Electrical and electronic waste in Pakistan: the management practices and perspectives <b>2020</b> , 263-281		2
37	A review on the recycling processes of spent auto-catalysts: Towards the development of sustainable metallurgy. <i>Waste Management</i> , <b>2020</b> , 114, 148-165	8.6	36
36	Disinfection technology and strategies for COVID-19 hospital and bio-medical waste management. <i>Science of the Total Environment</i> , <b>2020</b> , 749, 141652	10.2	152
35	Potential and Transformational Needs of Alternative Energy in Developing Countries. <i>Handbook of Environmental Chemistry</i> , <b>2020</b> , 1-24	0.8	
34	Biosorption of Strontium from Aqueous Solutions. <i>Handbook of Environmental Chemistry</i> , <b>2020</b> , 65-83	0.8	4
33	Assessment of the Alkaline Earth Metals (Ca, Sr, Ba) and Their Associated Health Impacts. <i>Handbook of Environmental Chemistry</i> , <b>2020</b> , 227-243	0.8	2
32	Extraction of nickel and cobalt from a laterite ore using the carbothermic reduction roasting-ammoniacal leaching process. <i>Separation and Purification Technology</i> , <b>2020</b> , 232, 115971	8.3	30
31	Environmental Management of E-waste <b>2019</b> , 103-132		8
30	Total recycling of all the components from spent auto-catalyst by NaOH roasting-assisted hydrometallurgical route. <i>Journal of Hazardous Materials</i> , <b>2019</b> , 379, 120772	12.8	25

29	Reclamation of tungsten from carbide scraps and spent materials. <i>Journal of Materials Science</i> , <b>2019</b> , 54, 83-107	4.3	10
28	Selective recovery of rhenium from molybdenite flue-dust leach liquor using solvent extraction with TBP. <i>Separation and Purification Technology</i> , <b>2018</b> , 191, 116-121	8.3	44
27	Hydrometallurgical recycling of surface-coated metals from automobile-discarded ABS plastic waste. <i>Waste Management</i> , <b>2018</b> , 80, 414-422	8.6	9
26	Advance review on the exploitation of the prominent energy-storage element Lithium. Part II: From sea water and spent lithium ion batteries (LIBs). <i>Minerals Engineering</i> , <b>2017</b> , 110, 104-121	4.9	136
25	Assessment of legislation and practices for the sustainable management of waste electrical and electronic equipment in India. <i>Renewable and Sustainable Energy Reviews</i> , <b>2017</b> , 78, 220-232	16.2	97
24	Eco-threat Minimization in HCl Leaching of PGMs from Spent Automobile Catalysts by Formic Acid Prereduction. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 7302-7309	8.3	33
23	Bio-Reclamation of Strategic and Energy Critical Metals from Secondary Resources. <i>Metals</i> , <b>2017</b> , 7, 207	2.3	32
22	Efficient recycling of WC-Co hardmetal sludge by oxidation followed by alkali and sulfuric acid treatments. <i>Metals and Materials International</i> , <b>2016</b> , 22, 897-906	2.4	8
21	Novel Aqueous Processing of the Reverted Turbine-Blade Superalloy for Rhenium Recovery. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2016</b> , 55, 8191-8199	3.9	33
20	Leaching of Gold from the Spent/End-of-Life Mobile Phone-PCBs using Greener Reagents <b>2016</b> , 7-56		4
19	Highly selective separation of individual platinum group metals (Pd, Pt, Rh) from acidic chloride media using phosphonium-based ionic liquid in aromatic diluent. <i>RSC Advances</i> , <b>2016</b> , 6, 62717-62728	3.7	36
18	Advance review on the exploitation of the prominent energy-storage element: Lithium. Part I: From mineral and brine resources. <i>Minerals Engineering</i> , <b>2016</b> , 89, 119-137	4.9	225
17	A novel zero emission concept for electrogenerated chlorine leaching and its application to extraction of platinum group metals from spent automotive catalyst. <i>Hydrometallurgy</i> , <b>2016</b> , 159, 19-27	4	18
16	Simple recycling of copper by the synergistic exploitation of industrial wastes: a step towards sustainability. <i>Green Chemistry</i> , <b>2016</b> , 18, 3823-3834	10	29
15	Liquid-liquid extraction of rhenium(VII) from an acidic chloride solution using Cyanex 923. <i>Hydrometallurgy</i> , <b>2015</b> , 157, 33-38	4	51
14	Complexation chemistry in liquid-liquid extraction of rhenium. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2015</b> , 90, 1752-1764	3.5	39
13	Resource recycling of superalloys and hydrometallurgical challenges. <i>Journal of Materials Science</i> , <b>2014</b> , 49, 4671-4686	4.3	51
12	Bioleaching of metals from electronic scrap in a stirred tank reactor. <i>Hydrometallurgy</i> , <b>2014</b> , 149, 50-62	4	45

11	Bioremoval of heavy metals from recycling industry electronic waste by a consortium of moderate thermophiles: process development and optimization. <i>Journal of Cleaner Production</i> , <b>2014</b> , 70, 194-202	10.3	73
10	Hydrometallurgical recovery/recycling of platinum by the leaching of spent catalysts: A review. <i>Hydrometallurgy</i> , <b>2013</b> , 133, 23-32	4	202
9	Separation of Tungsten from Mo-Rich Leach Liquor by Adsorption onto a Typical FeMn Cake: Kinetics, Equilibrium, Mechanism, and Thermodynamics Studies. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2013</b> , 52, 17591-17597	3.9	22
8	Leaching studies for tin recovery from waste e-scrap. <i>Waste Management</i> , <b>2012</b> , 32, 1919-25	8.6	34
7	Leaching of lead from solder material of waste printed circuit boards (PCBs). <i>Hydrometallurgy</i> , <b>2012</b> , 121-124, 28-34	4	94
6	Selective recovery of gold from waste mobile phone PCBs by hydrometallurgical process. <i>Journal of Hazardous Materials</i> , <b>2011</b> , 198, 206-15	12.8	144
5	Recycling of WC-Co hardmetal sludge by a new hydrometallurgical route. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2011</b> , 29, 365-371	4.1	46
4	Present status of the recycling of waste electrical and electronic equipment in Korea. <i>Resources, Conservation and Recycling</i> , <b>2007</b> , 50, 380-397	11.9	199
3	Copper Leaching Behavior from Waste Printed Circuit Board in Ammoniacal Alkaline Solution. <i>Materials Transactions</i> , <b>2006</b> , 47, 1788-1792	1.3	85
2	Dissolution of molybdenite roasting flue dust in sulfuric acid: kinetics and mechanism for molybdenum and rhenium leaching. <i>Chemical Papers</i> , 1	1.9	4
1	Mobilization of platinum and palladium from exhausted catalytic converters using bio-cyanide and ionic-liquid as mass transport carriers. <i>Green Chemistry</i> ,	10	6