Rajiv R Srivastava

List of Publications by Citations

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	Advance review on the exploitation of the prominent energy-storage element: Lithium. Part I: From mineral and brine resources. *Minerals Engineering*, **2016**, 89, 119-137	4.9	225
63	Hydrometallurgical recovery/recycling of platinum by the leaching of spent catalysts: A review. *Hydrometallurgy*, **2013**, 133, 23-32	4	202
62	Present status of the recycling of waste electrical and electronic equipment in Korea. *Resources, Conservation and Recycling*, **2007**, 50, 380-397	11.9	199
61	Disinfection technology and strategies for COVID-19 hospital and bio-medical waste management. *Science of the Total Environment*, **2020**, 749, 141652	10.2	152
60	Selective recovery of gold from waste mobile phone PCBs by hydrometallurgical process. *Journal of Hazardous Materials*, **2011**, 198, 206-15	12.8	144
59	Advance review on the exploitation of the prominent energy-storage element Lithium. Part II: From sea water and spent lithium ion batteries (LIBs). *Minerals Engineering*, **2017**, 110, 104-121	4.9	136
58	Assessment of legislation and practices for the sustainable management of waste electrical and electronic equipment in India. *Renewable and Sustainable Energy Reviews*, **2017**, 78, 220-232	16.2	97
57	Leaching of lead from solder material of waste printed circuit boards (PCBs). *Hydrometallurgy*, **2012** , 121-124, 28-34	4	94
56	Copper Leaching Behavior from Waste Printed Circuit Board in Ammoniacal Alkaline Solution. *Materials Transactions*, **2006**, 47, 1788-1792	1.3	85
55	Bioremoval of heavy metals from recycling industry electronic waste by a consortium of moderate thermophiles: process development and optimization. *Journal of Cleaner Production*, **2014**, 70, 194-202	10.3	73
54	Liquid□quid extraction of rhenium(VII) from an acidic chloride solution using Cyanex 923. *Hydrometallurgy*, **2015**, 157, 33-38	4	51
53	Resource recycling of superalloys and hydrometallurgical challenges. *Journal of Materials Science*, **2014**, 49, 4671-4686	4.3	51
52	Recycling of WC□o hardmetal sludge by a new hydrometallurgical route. *International Journal of Refractory Metals and Hard Materials*, **2011**, 29, 365-371	4.1	46
51	Bioleaching of metals from electronic scrap in a stirred tank reactor. *Hydrometallurgy*, **2014**, 149, 50-62	4	45
50	Selective recovery of rhenium from molybdenite flue-dust leach liquor using solvent extraction with TBP. *Separation and Purification Technology*, **2018**, 191, 116-121	8.3	44
49	Complexation chemistry in liquid□quid extraction of rhenium. *Journal of Chemical Technology and Biotechnology*, **2015**, 90, 1752-1764	3.5	39
48	Highly selective separation of individual platinum group metals (Pd, Pt, Rh) from acidic chloride media using phosphonium-based ionic liquid in aromatic diluent. *RSC Advances*, **2016**, 6, 62717-62728	3.7	36

47	A review on the recycling processes of spent auto-catalysts: Towards the development of sustainable metallurgy. *Waste Management*, **2020**, 114, 148-165	8.6	36
46	Leaching studies for tin recovery from waste e-scrap. *Waste Management*, **2012**, 32, 1919-25	8.6	34
45	Novel Aqueous Processing of the Reverted Turbine-Blade Superalloy for Rhenium Recovery. *Industrial & Engineering Chemistry Research*, **2016**, 55, 8191-8199	3.9	33
44	Eco-threat Minimization in HCl Leaching of PGMs from Spent Automobile Catalysts by Formic Acid Prereduction. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 7302-7309	8.3	33
43	Bio-Reclamation of Strategic and Energy Critical Metals from Secondary Resources. *Metals*, **2017**, 7, 207	2.3	32
42	Extraction of nickel and cobalt from a laterite ore using the carbothermic reduction roasting-ammoniacal leaching process. *Separation and Purification Technology*, **2020**, 232, 115971	8.3	30
41	Simple recycling of copper by the synergistic exploitation of industrial wastes: a step towards sustainability. *Green Chemistry*, **2016**, 18, 3823-3834	10	29
40	Biotechnological recycling of critical metals from waste printed circuit boards. *Journal of Chemical Technology and Biotechnology*, **2020**, 95, 2796-2810	3.5	27
39	Total recycling of all the components from spent auto-catalyst by NaOH roasting-assisted hydrometallurgical route. *Journal of Hazardous Materials*, **2019**, 379, 120772	12.8	25
38	Hydrometallurgical recycling of palladium and platinum from exhausted diesel oxidation catalysts. *Separation and Purification Technology*, **2020**, 248, 117029	8.3	25
37	Circular bioeconomy and environmental benignness through microbial recycling of e-waste: A case study on copper and gold restoration. *Waste Management*, **2021**, 121, 175-185	8.6	25
36	Leaching of exhausted LNCM cathode batteries in ascorbic acid lixiviant: a green recycling approach, reaction kinetics and process mechanism. *Journal of Chemical Technology and Biotechnology*, **2020**, 95, 2286-2294	3.5	23
35	Separation of Tungsten from Mo-Rich Leach Liquor by Adsorption onto a Typical Fe–Mn Cake: Kinetics, Equilibrium, Mechanism, and Thermodynamics Studies. *Industrial & Engineering Chemistry Research*, **2013**, 52, 17591-17597	3.9	22
34	Two-step leaching process and kinetics for an eco-friendly recycling of critical metals from spent Li-ion batteries. *Journal of Environmental Chemical Engineering*, **2021**, 9, 105232	6.8	21
33	A novel zero emission concept for electrogenerated chlorine leaching and its application to extraction of platinum group metals from spent automotive catalyst. *Hydrometallurgy*, **2016**, 159, 19-27	4	18
32	Liquid–Liquid Extraction and Reductive Stripping of Chromium to Valorize Industrial Effluent. *Jom*, **2020**, 72, 839-846	2.1	18
31	Extraction equilibria of cerium(IV) with Cyanex 923 followed by precipitation kinetics of cerium(III) oxalate from sulfate solution. *Separation and Purification Technology*, **2021**, 254, 117634	8.3	15
30	O-enriched microbial activity with pH-sensitive solvo-chemical and electro-chlorination strategy to reclaim critical metals from the hazardous waste printed circuit boards. *Journal of Hazardous Materials*, **2021**, 416, 125769	12.8	15

29	Gold recovery from secondary waste of PCBs by electro-Cl2 leaching in brine solution and solvo-chemical separation with tri-butyl phosphate. *Journal of Cleaner Production*, **2021**, 295, 126389	10.3	14
28	Cleaner production of rare earth elements from phosphorus-bearing sulfuric acid solution of vein deposit monazite. *Journal of Cleaner Production*, **2021**, 278, 123435	10.3	14
27	Biotechnological recycling of hazardous waste PCBs using Sulfobacillus thermosulfidooxidans through pretreatment of toxicant metals: Process optimization and kinetic studies. *Chemosphere*, **2022**, 286, 131978	8.4	13
26	Growth projections against set-target of renewable energy and resultant impact on emissions reduction in India. *Environmental Engineering Research*, **2021**, 26, 200083-0	3.6	10
25	Reclamation of tungsten from carbide scraps and spent materials. *Journal of Materials Science*, **2019**, 54, 83-107	4.3	10
24	Hydrometallurgical Recycling of Rare Earth Metal Cerium from Bio-processed Residual Waste of Exhausted Automobile Catalysts. *Jom*, **2021**, 73, 19-26	2.1	10
23	Policy issues for efficient management of E-waste in developing countries **2020**, 81-99		9
22	Hydrometallurgical recycling of surface-coated metals from automobile-discarded ABS plastic waste. *Waste Management*, **2018**, 80, 414-422	8.6	9
21	Environmental Management of E-waste **2019**, 103-132		8
20	Efficient recycling of WC-Co hardmetal sludge by oxidation followed by alkali and sulfuric acid treatments. *Metals and Materials International*, **2016**, 22, 897-906	2.4	8
19	Mobilization of platinum and palladium from exhausted catalytic converters using bio-cyanide and ionic-liquid as mass transport carriers. *Green Chemistry*,	10	6
18	Recovery of Cerium from Spent Autocatalyst by Sulfatizing Leaching Precipitation Process. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 15630-15639	8.3	5
17	Leaching of Gold from the Spent/End-of-Life Mobile Phone-PCBs using Greener Reagents **2016**, 7-56		4
16	Biosorption of Strontium from Aqueous Solutions. *Handbook of Environmental Chemistry*, **2020**, 65-83	0.8	4
15	Dissolution of molybdenite roasting flue dust in sulfuric acid: kinetics and mechanism for molybdenum and rhenium leaching. *Chemical Papers*,1	1.9	4
14	Strontium Extraction from the Geo-environment. *Handbook of Environmental Chemistry*, **2020**, 43-63	0.8	3
13	Liquid-liquid extraction of phosphorus from sulfuric acid solution using benzyl dimethyl amine. *International Journal of Minerals, Metallurgy and Materials*, **2021**, 28, 367-372	3.1	3
12	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. *Separation and Purification Technology*, **2021**, 255, 117712	8.3	3

11	Separation of platinum group metals from model chloride solution using phosphonium-based ionic liquid. *Separation and Purification Technology*, **2022**, 278, 119577	8.3	3
10	Electrical and electronic waste in Pakistan: the management practices and perspectives **2020**, 263-281		2
9	Assessment of the Alkaline Earth Metals (Ca, Sr, Ba) and Their Associated Health Impacts. *Handbook of Environmental Chemistry*, **2020**, 227-243	0.8	2
8	Role of Chemistry in Alternative Energy: The Thermodynamics and Electrochemical Approach. *Handbook of Environmental Chemistry*, **2020**, 293-315	0.8	1
7	Carbothermic Reduction Roasting of a Low-Grade Nickel Laterite Ore in the Modified Caron Process. *Minerals, Metals and Materials Series*, **2021**, 317-328	0.3	1
6	Recycling of Automobile Discarded Ceramic Converters for Pt-Group Metals Recovery Through Pressure CN-Leaching. *Minerals, Metals and Materials Series*, **2022**, 755-761	0.3	
5	Development of Antagonistic Solvent Extraction Systems for Selective Separation of Copper, Cobalt, and Nickel in Ammoniacal Solution. *Minerals, Metals and Materials Series*, **2022**, 169-177	0.3	
4	Potential and Transformational Needs of Alternative Energy in Developing Countries. *Handbook of Environmental Chemistry*, **2020**, 1-24	0.8	
3	Enhanced Electrokinetic Techniques in Soil Remediation for Removal of Heavy Metals **2021**, 287-302		
2	Solvo-Chemical Recovery of Cerium from Sulfate Solution Using Cyanex 923 and Oxalate Precipitation. *Minerals, Metals and Materials Series*, **2021**, 303-310	0.3	
1	Resource Recovery of Cerium from Spent Catalytic Converter Using Aqueous Metallurgy. *Minerals, Metals and Materials Series*, **2021**, 1055-1062	0.3	