

Pankaj Parhi

List of Publications by Citations

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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.

88

papers

2,160

citations

27

h-index

44

g-index

92

ext. papers

2,751

ext. citations

4.9

avg, IF

5.49

L-index

#	Paper	IF	Citations
88	Waste Printed Circuit Boards recycling: an extensive assessment of current status. <i>Journal of Cleaner Production</i> , 2015 , 94, 5-19	10.3	340
87	Supported Liquid Membrane Principle and Its Practices: A Short Review. <i>Journal of Chemistry</i> , 2013 , 2013, 1-11	2.3	107
86	Separation of copper, zinc, cobalt and nickel ions by supported liquid membrane technique using LIX 84I, TOPS-99 and Cyanex 272. <i>Separation and Purification Technology</i> , 2008 , 59, 169-174	8.3	83
85	Separation of iron(III), copper(II) and zinc(II) from a mixed sulphate/chloride solution using TBP, LIX 84I and Cyanex 923. <i>Separation and Purification Technology</i> , 2007 , 55, 44-49	8.3	76
84	Leaching kinetics study of neodymium from the scrap magnet using acetic acid. <i>Separation and Purification Technology</i> , 2016 , 160, 59-66	8.3	71
83	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	10.3	69
82	Bioleaching approach for extraction of metal values from secondary solid wastes: A critical review. <i>Hydrometallurgy</i> , 2019 , 189, 105122	4	68
81	Active and passive biosorption of Pb(II) using live and dead biomass of marine bacterium <i>Bacillus xiamenensis</i> PBRPSD202: Kinetics and isotherm studies. <i>Journal of Environmental Management</i> , 2019 , 247, 121-134	7.9	65
80	Recovery of molybdenum from the sea nodule leach liquor by solvent extraction using Alamine 304-I. <i>Hydrometallurgy</i> , 2011 , 105, 195-200	4	62
79	Two step meso-acidophilic bioleaching of chalcopyrite containing ball mill spillage and removal of the surface passivation layer. <i>Bioresource Technology</i> , 2013 , 130, 332-8	11	57
78	Therapeutic prospective of plant-induced silver nanoparticles: application as antimicrobial and anticancer agent. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2018 , 46, S38-S51	6.1	52
77	A kinetic study on hydrochloric acid leaching of nickel from NiAl ₂ O ₃ spent catalyst. <i>Journal of Industrial and Engineering Chemistry</i> , 2013 , 19, 589-594	6.3	50
76	Direct leaching of molybdenum and cobalt from spent hydrodesulphurization catalyst with sulphuric acid. <i>Hydrometallurgy</i> , 2012 , 111-112, 46-51	4	48
75	Separation of cobalt and nickel from ammoniacal sulphate solution using Cyanex 272. <i>Separation and Purification Technology</i> , 2008 , 59, 310-317	8.3	47
74	Liquid-liquid extraction and separation of total rare earth (RE) metals from polymetallic manganese nodule leaching solution. <i>Journal of Rare Earths</i> , 2015 , 33, 207-213	3.7	46
73	Recovery of molybdenum from spent catalyst leach solutions by solvent extraction with LIX 84-I. <i>Separation and Purification Technology</i> , 2010 , 74, 294-299	8.3	46
72	A study on extraction of copper using LIX 84-I and LIX 622N. <i>Separation and Purification Technology</i> , 2009 , 70, 58-62	8.3	45

71	Extraction of scandium(III) from acidic solutions using organo-phosphoric acid reagents: A comparative study. <i>Separation and Purification Technology</i> , 2018 , 202, 248-258	8.3	41
70	Influence of Mg doping on ZnO NPs for enhanced adsorption activity of Congo Red dye. <i>Applied Surface Science</i> , 2019 , 491, 256-266	6.7	35
69	Extraction of metal values from waste spent petroleum catalyst using acidic solutions. <i>Separation and Purification Technology</i> , 2012 , 101, 85-90	8.3	35
68	Removal of Congo Red dye from aqueous solution using Amberlite IRA-400 in batch and fixed bed reactors. <i>Chemical Engineering Communications</i> , 2018 , 205, 432-444	2.2	31
67	Extraction of rare earth metals from deep sea nodule using H ₂ SO ₄ solution. <i>International Journal of Mineral Processing</i> , 2013 , 119, 89-92		31
66	Extraction of copper from bacterial leach liquor of a low grade chalcopyrite test heap using LIX 984N-C. <i>Hydrometallurgy</i> , 2012 , 121-124, 116-119	4	30
65	Recent Advances in Urea- and Thiourea-Based Metal Complexes: Biological, Sensor, Optical, and Corrosion Inhibition Studies. <i>Comments on Inorganic Chemistry</i> , 2019 , 39, 127-187	3.9	28
64	Bioreduction of hexavalent chromium by <i>Exiguobacterium indicum</i> strain MW1 isolated from marine water of Paradip Port, Odisha, India. <i>Chemistry and Ecology</i> , 2017 , 33, 114-130	2.3	27
63	Application of sequential leaching, risk indices and multivariate statistics to evaluate heavy metal contamination of estuarine sediments: Dhamara Estuary, East Coast of India. <i>Environmental Monitoring and Assessment</i> , 2013 , 185, 6719-37	3.1	27
62	Extraction of metals from MoNi/Al ₂ O ₃ spent catalyst using H ₂ SO ₄ baking leaching-solvent extraction technique. <i>Journal of Industrial and Engineering Chemistry</i> , 2012 , 18, 2036-2045	6.3	27
61	Separation and recovery of neodymium and praseodymium from permanent magnet scrap through the hydrometallurgical route. <i>Separation Science and Technology</i> , 2016 , 51, 2232-2241	2.5	25
60	Extraction of cadmium from dilute solution using supported liquid membrane. <i>Journal of Hazardous Materials</i> , 2009 , 172, 773-9	12.8	23
59	Separation of Co (II) and Ni (II) from the mixed sulphate/chloride solution using NaPC-88A. <i>Desalination</i> , 2011 , 267, 201-208	10.3	23
58	Ultrasound and Microwave assisted leaching of neodymium from waste magnet using organic solvent. <i>Hydrometallurgy</i> , 2019 , 185, 61-70	4	21
57	Biosynthesized gold nanoparticles as photocatalysts for selective degradation of cationic dye and their antimicrobial activity. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020 , 400, 112704	4.7	21
56	Recovery of Rhenium and Molybdenum from Molybdenite Roasting Dust Leaching Solution by Ion Exchange Resins. <i>Materials Transactions</i> , 2012 , 53, 2034-2037	1.3	21
55	Kinetics, thermodynamics and isotherm studies on adsorption of methyl orange from aqueous solution using ion exchange resin Amberlite IRA-40060, 249-260		20
54	A study on removal of Cr(III) from aqueous solution using biomass of <i>Cymbopogon flexuosus</i> immobilized in sodium alginate beads and its use as hydrogenation catalyst. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019 , 102, 118-132	5.3	19

53	pH triggered green synthesized silver nanoparticles toward selective colorimetric detection of kanamycin and hazardous sulfide ions. <i>Journal of Molecular Liquids</i> , 2018 , 269, 269-277	6	18
52	Combined effect of natural dispersant and a stabilizer in formulation of high concentration coal water slurry: Experimental and rheological modeling. <i>Journal of Molecular Liquids</i> , 2020 , 320, 114441	6	17
51	Acacia concinna: A natural dispersant for stabilization and transportation of fly ash-water slurry. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019 , 99, 193-200	5.3	16
50	Characterization, stabilization, and study of mechanism of coal-water slurry using Sapindous Mukorossi as an additive. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2018 , 40, 2502-2509	1.6	16
49	Behavior of Extraction, Stripping, and Separation Possibilities of Rhenium and Molybdenum from Molybdenite Roasting Dust Leaching Solution Using Amine Based Extractant Tri-Otyl-Amine (TOA). <i>Materials Transactions</i> , 2013 , 54, 1209-1212	1.3	16
48	Stabilization and Rheological Behavior of Fly Ash-Water Slurry Using a Natural Dispersant in Pipeline Transportation. <i>ACS Omega</i> , 2019 , 4, 21604-21611	3.9	16
47	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	3.7	15
46	Sustainable and Efficient Route for the Regeneration of Carbonyl Compounds from Oximes Using Aqueous Extract of under Microwave Radiation. <i>ACS Omega</i> , 2020 , 5, 7716-7721	3.9	15
45	Sonochemically synthesized Ag/CaCO ₃ nanocomposites: A highly efficient reusable catalyst for reduction of 4-nitrophenol. <i>Materials Chemistry and Physics</i> , 2018 , 220, 409-416	4.4	14
44	Synthesis, structural investigations and antimicrobial studies of hydrazone based ternary complexes with Cr(III), Fe(III) and La(III) ions. <i>Journal of Saudi Chemical Society</i> , 2020 , 24, 492-503	4.3	12
43	Rapid colorimetric sensing of gadolinium by EGCG-derived AgNPs: the development of a nano hybrid bioimaging probe. <i>Chemical Communications</i> , 2018 , 54, 3981-3984	5.8	12
42	Selective dissolution of copper from copper-chromium spent catalyst by baking leaching process. <i>Journal of Industrial and Engineering Chemistry</i> , 2015 , 21, 604-609	6.3	11
41	Separation and recovery of Sc(III) from Mg-Bi alloy scrap solution through hollow fiber supported liquid membrane (HFLM) process supported by Bi-functional ionic liquid as carrier. <i>Separation Science and Technology</i> , 2019 , 54, 1478-1488	2.5	11
40	Studies on Removal of Low Content Copper from the Sea Nodule Aqueous Solution using the Cationic Resin TP 207. <i>Separation Science and Technology</i> , 2012 , 47, 1531-1541	2.5	10
39	Column bioleaching applications, process development, mechanism, parametric effect and modelling: A review. <i>Journal of Industrial and Engineering Chemistry</i> , 2020 , 90, 1-16	6.3	10
38	Aqueous extract of Shikakai; a green solvent for deoxygenation reaction: Mechanistic approach from experimental to theoretical. <i>Journal of Molecular Liquids</i> , 2020 , 309, 113133	6	9
37	Green strategies in formulating, stabilizing and pipeline transportation of coal water slurry in the framework of WATER-ENERGY NEXUS: A state of the art review. <i>Energy Nexus</i> , 2021 , 4, 100025		8
36	Mixed-ligand complexes of ampicillin derived Schiff base ligand and Nicotinamide: Synthesis, physico-chemical studies, DFT calculation, antibacterial study and molecular docking analysis. <i>Journal of Molecular Structure</i> , 2021 , 1229, 129832	3.4	8

35	Nanoceria: A rare-earth nanoparticle as a promising anti-cancer therapeutic agent in colon cancer. <i>Materials Science in Semiconductor Processing</i> , 2019 , 104, 104669	4.3	7
34	Effect of calcination temperature on morphology and phase transformation of MnO nanoparticles: A step towards green synthesis for reactive dye adsorption. <i>Chemosphere</i> , 2021 , 288, 132472	8.4	7
33	Microwave assisted leaching investigation for the extraction of copper(II) and chromium(III) from spent catalyst. <i>Separation and Purification Technology</i> , 2020 , 244, 116842	8.3	7
32	Kinetics, Thermodynamics and Isotherm studies on Adsorption of Eriochrome Black-T from aqueous solution using Rutile TiO ₂ . <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 310, 012051	0.4	6
31	Adsorptive removal of Congo Red dye from aqueous solution using TiO ₂ nanoparticles: Kinetics, thermodynamics and isothermal insights 2019 ,		6
30	Separation and Recovery of Molybdenum from Acidic Solution using LIX 973 N. <i>Separation Science and Technology</i> , 2014 , 49, 647-655	2.5	6
29	Sustainable Transportation, Leaching, Stabilization, and Disposal of Fly Ash Using a Mixture of Natural Surfactant and Sodium Silicate. <i>ACS Omega</i> , 2021 , 6, 22820-22830	3.9	6
28	Potential application of bacterial biofilm for bioremediation of toxic heavy metals and dye-contaminated environments 2020 , 267-281		5
27	Adsorption of xylenol orange dye on nano ZnO: Kinetics, thermodynamics and isotherm study 2017 ,		5
26	Biodetoxification of Toxic Heavy Metals by Marine Metal Resistant Bacteria- A Novel Approach for Bioremediation of the Polluted Saline Environment 2017 , 343-376		5
25	An efficient synthesis towards the core of Crinipellin: TD-DFT and docking studies. <i>Journal of Saudi Chemical Society</i> , 2021 , 25, 101193	4.3	5
24	Citric acid mediated leaching kinetics study and comprehensive investigation on extraction of vanadium (V) from the spent catalyst. <i>Separation and Purification Technology</i> , 2021 , 276, 119377	8.3	5
23	EXPERIMENTAL STUDIES AND PARAMETER OPTIMIZATION OF SEPARATION OF COPPER USING HOLLOW FIBER SUPPORTED LIQUID MEMBRANE. <i>Chemical Engineering Communications</i> , 2013 , 200, 1237-1250	2.2	4
22	Characterization and Utilization of Coal Ash for Synthesis of Building Materials 2021 , 487-509		4
21	Extraction of Silk Fibroin with Several Sericin Removal Processes and its Importance in Tissue Engineering: A Review. <i>Journal of Polymers and the Environment</i> , 1	4.5	3
20	A novel approach on leaching study for removal of toxic elements from thermal power plant-based fly ash using natural bio-surfactant. <i>Case Studies in Chemical and Environmental Engineering</i> , 2021 , 4, 100156	7.5	3
19	Effect of Particle Size Distribution and Selective Alcohol Additives for Preparation of High Concentration Coal-Water Slurry. <i>Micro and Nanosystems</i> , 2020 , 12, 102-111	0.6	3
18	Environmentally friendly comprehensive hydrometallurgical method development for neodymium recovery from mixed rare earth aqueous solutions using organo-phosphorus derivatives. <i>Scientific Reports</i> , 2020 , 10, 16911	4.9	3

17	Enhancing the rheology and leachability of fly ash slurry using natural Synthetic mixed surfactant system for hydraulic stowing in underground mines. <i>International Journal of Coal Preparation and Utilization</i> , 1-21	1.2	2
16	Fundamental Principle and Practices of Solvent Extraction (SX) and Supported Liquid Membrane (SLM) Process for Extraction and Separation of Rare Earth Metal(s) 2020 , 57-85		2
15	Native Soil Bacteria: Potential Agent for Bioremediation 2019 , 17-34		2
14	Prospective Utilization of Coal Fly Ash for Making Advanced Materials 2021 , 511-531		2
13	Room Temperature Magnetic Behavior In Nanocrystalline Ni-Doped ZrO ₂ By Microwave-Assisted Polyol Synthesis. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 225, 012007	0.4	1
12	Process optimization and extraction of nickel by hollow fiber membrane using response surface methodology. <i>Mining, Metallurgy and Exploration</i> , 2012 , 29, 225-230	1.1	1
11	Processing of manganese nodule leach liquor for the separation of cobalt and nickel using PC 88A. <i>Mining, Metallurgy and Exploration</i> , 2009 , 26, 133-140	1.1	1
10	Molecular mechanisms of the lipopeptides from <i>Bacillus subtilis</i> in the apoptosis of cancer cells - A review on its Current Status in different cancer cell lines. <i>Advances in Cancer Biology Metastasis</i> , 2021 , 3, 100019		1
9	Bioleaching: A Bioremediation Process to Treat Hazardous Wastes 2019 , 115-129		1
8	Biochemistry, Synthesis, and Applications of Bacterial Cellulose: A Review.. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022 , 10, 780409	5.8	1
7	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	0.3	1
6	Sustainable environmentally friendly approaches to the recycling of spent selective catalytic reduction (SCR) catalysts 2022 , 765-787		0
5	Sour beer production in India using a coculture of <i>Saccharomyces pastorianus</i> and <i>Lactobacillus plantarum</i> : optimization, microbiological, and biochemical profiling.. <i>Brazilian Journal of Microbiology</i> , 2022 , 1	2.2	0
4	Environmental friendly approach for selective extraction and recovery of molybdenum (Mo) from a sulphate mediated spent Ni-Mo/AlO catalyst baked leach liquor.. <i>Journal of Environmental Management</i> , 2022 , 306, 114474	7.9	0
3	Introduction of Rare Earth Metal Recovery for Green and Clean Energy Technologies 2020 , 1-8		
2	Application of Biotechnological Approach for Making Coal an Environmentally Friendly Fuel 2021 , 59-69		
1	Natural Dispersant in Coal Water Slurry Stabilization 2021 , 39-57		