

Banshi Dhar Pandey

List of Publications by Year in descending order

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64
papers

5,534
citations

101496

36
h-index

118793

62
g-index

65
all docs

65
docs citations

65
times ranked

5087
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemical and microbial remediation of hexavalent chromium from contaminated soil and mining/metallurgical solid waste: A review. <i>Journal of Hazardous Materials</i> , 2013, 250-251, 272-291.	6.5	843
2	Extraction of lithium from primary and secondary sources by pre-treatment, leaching and separation: A comprehensive review. <i>Hydrometallurgy</i> , 2014, 150, 192-208.	1.8	589
3	Hydrometallurgical processing of spent lithium ion batteries (LIBs) in the presence of a reducing agent with emphasis on kinetics of leaching. <i>Chemical Engineering Journal</i> , 2015, 281, 418-427.	6.6	404
4	Recovery of lithium and cobalt from waste lithium ion batteries of mobile phone. <i>Waste Management</i> , 2013, 33, 1890-1897.	3.7	323
5	Bio-processing of solid wastes and secondary resources for metal extraction – A review. <i>Waste Management</i> , 2012, 32, 3-18.	3.7	266
6	Recovery of valuable metals from cathodic active material of spent lithium ion batteries: Leaching and kinetic aspects. <i>Waste Management</i> , 2015, 45, 306-313.	3.7	237
7	Selective recovery of gold from waste mobile phone PCBs by hydrometallurgical process. <i>Journal of Hazardous Materials</i> , 2011, 198, 206-215.	6.5	177
8	Solid waste management in non-ferrous industries in India. <i>Resources, Conservation and Recycling</i> , 2004, 42, 99-120.	5.3	161
9	Bioleaching of gold and copper from waste mobile phone PCBs by using a cyanogenic bacterium. <i>Minerals Engineering</i> , 2011, 24, 1219-1222.	1.8	136
10	Demineralization of low grade coal – A review. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 41, 745-761.	8.2	133
11	Leaching kinetics of copper from waste printed circuit boards by electro-generated chlorine in HCl solution. <i>Hydrometallurgy</i> , 2011, 107, 124-132.	1.8	130
12	REMEDICATION OPTIONS FOR THE TREATMENT OF ELECTROPLATING AND LEATHER TANNING EFFLUENT CONTAINING CHROMIUM – A REVIEW. <i>Mineral Processing and Extractive Metallurgy Review</i> , 2006, 27, 99-130.	2.6	127
13	Extraction of lanthanum and cerium from Indian red mud. <i>International Journal of Mineral Processing</i> , 2014, 127, 70-73.	2.6	102
14	Advanced Review on Extraction of Nickel from Primary and Secondary Sources. <i>Mineral Processing and Extractive Metallurgy Review</i> , 2019, 40, 157-193.	2.6	102
15	Optimizing the thiosulfate leaching of gold from printed circuit boards of discarded mobile phone. <i>Hydrometallurgy</i> , 2014, 149, 118-126.	1.8	100
16	Microbial synthesis of iron-based nanomaterials – A review. <i>Bulletin of Materials Science</i> , 2011, 34, 191-198.	0.8	99
17	Process optimization and kinetics for leaching of rare earth metals from the spent Ni – metal hydride batteries. <i>Waste Management</i> , 2016, 51, 196-203.	3.7	99
18	Alternative processes for treatment of chalcopryrite – A review. <i>Minerals Engineering</i> , 1998, 11, 763-781.	1.8	94

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19	Removal of chromium(III) by cation exchange resin, Indion 790 for tannery waste treatment. Hydrometallurgy, 2009, 99, 170-174.	1.8	77
20	Leaching of copper, nickel and cobalt from Indian Ocean manganese nodules by <i>Aspergillus niger</i> . Hydrometallurgy, 2010, 105, 89-95.	1.8	77
21	Selective separation and recovery of cobalt from leach liquor of discarded Li-ion batteries using thiophosphinic extractant. Separation and Purification Technology, 2013, 104, 160-166.	3.9	77
22	Zinc recovery from sphalerite concentrate by direct oxidative leaching with ammonium, sodium and potassium persulphates. Hydrometallurgy, 2002, 64, 119-129.	1.8	61
23	Removal of zinc from aqueous solutions using sea nodule residue. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2004, 237, 133-140.	2.3	56
24	Ammoniacal leaching of roast reduced deep-sea manganese nodules. Hydrometallurgy, 1999, 53, 45-56.	1.8	55
25	Evaluation of bioleaching factors on gold recovery from ore by cyanide-producing bacteria. Minerals Engineering, 2013, 48, 20-24.	1.8	55
26	Perspective of availability and sustainable recycling prospects of metals in rechargeable batteries – A resource overview. Resources Policy, 2019, 60, 9-22.	4.2	53
27	Leaching of base metals from spent Ni-metal hydride batteries with emphasis on kinetics and characterization. Hydrometallurgy, 2015, 158, 172-179.	1.8	51
28	Enhancing the adsorption of chromium(VI) from the acidic chloride media using solvent impregnated resin (SIR). Chemical Engineering Journal, 2013, 219, 174-182.	6.6	49
29	Recovery of copper, nickel and cobalt from the leach liquor of a sulphide concentrate by solvent extraction. Minerals Engineering, 2004, 17, 949-951.	1.8	48
30	A comprehensive review on the hydro metallurgical process for the production of nickel and copper powders by hydrogen reduction. Materials Research Bulletin, 2006, 41, 879-892.	2.7	44
31	Dissolution of uranium from silicate-apatite ore by <i>Acidithiobacillus ferrooxidans</i> . Hydrometallurgy, 2009, 95, 70-75.	1.8	43
32	Extraction of chromium (III) from spent tanning baths. Hydrometallurgy, 1996, 40, 343-357.	1.8	41
33	Extractive separation of copper and nickel from copper bleed stream by solvent extraction route. Minerals Engineering, 2008, 21, 1126-1130.	1.8	40
34	Systematic studies on adsorption of lead on sea nodule residues. Journal of Colloid and Interface Science, 2005, 281, 291-298.	5.0	39
35	Mechanism elucidation and adsorbent characterization for removal of Cr(VI) by native fungal adsorbent. Sustainable Environment Research, 2018, 28, 289-297.	2.1	39
36	Bacterial Cyanide Generation in the Presence of Metal Ions (Na ⁺ , Mg ²⁺ , Fe ²⁺ , Pb ²⁺) and Gold Bioleaching from Waste PCBs. Journal of Chemical Engineering of Japan, 2011, 44, 692-700.	0.3	38

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37	Prospects for solvent extraction processes in the Indian context for the recovery of base metals. A review. Hydrometallurgy, 2010, 103, 45-53.	1.8	36
38	Precipitation of sodium silicofluoride (Na ₂ SiF ₆) and cryolite (Na ₃ AlF ₆) from HF/HCl leach liquors of alumino-silicates. Hydrometallurgy, 2010, 104, 304-307.	1.8	35
39	Synthesis of zinc-based nanomaterials: a biological perspective. IET Nanobiotechnology, 2012, 6, 144-148.	1.9	35
40	Environmental Quality of the Boula-Nuasahi Chromite Mine Area in India. Mine Water and the Environment, 2011, 30, 191-196.	0.9	31
41	Recovery of nickel powder from copper bleed electrolyte of an Indian copper smelter by electrolysis. Powder Technology, 2007, 177, 133-139.	2.1	26
42	Characterizing toxic Cr(VI) contamination in chromite mine overburden dump and its bacterial remediation. Journal of Hazardous Materials, 2013, 260, 141-149.	6.5	26
43	Bioleaching - An Alternate Uranium Ore Processing Technology for India. Energy Procedia, 2011, 7, 158-162.	1.8	25
44	Recent Trends and Current Practices for Secondary Processing of Zinc and Lead. Part II: Zinc Recovery from Secondary Sources. Waste Management and Research, 2004, 22, 248-254.	2.2	23
45	Extraction of copper and nickel from ammoniacal leach liquor of Indian Ocean sea nodules. Hydrometallurgy, 1991, 26, 35-45.	1.8	20
46	Recent Trends and Current Practices for Secondary Processing of Zinc and Lead. Part I: Lead Recovery from Secondary Sources. Waste Management and Research, 2004, 22, 240-247.	2.2	20
47	Hydrogen reduction of copper bleed solution from an Indian copper smelter for producing high purity copper powders. Hydrometallurgy, 2006, 84, 218-224.	1.8	19
48	Recovery of copper powder from copper bleed electrolyte of an Indian copper smelter by electrolysis. Minerals Engineering, 2007, 20, 95-97.	1.8	19
49	Recovery of high value copper and zinc oxide powder from waste brass pickle liquor by solvent extraction. Hydrometallurgy, 2016, 165, 182-190.	1.8	18
50	Sulphation roasting studies on synthetic copper-iron sulphides with steam and oxygen. Canadian Metallurgical Quarterly, 1999, 38, 237-247.	0.4	17
51	Organic acid leaching of base metals from copper granulated slag and evaluation of mechanism. Canadian Metallurgical Quarterly, 2017, 56, 168-178.	0.4	16
52	Electrowinning of nickel in the processing of polymetallic sea nodules. Hydrometallurgy, 1990, 24, 189-201.	1.8	15
53	Studies on kinetics of biodissolution of metals from Indian Ocean nodules. Minerals Engineering, 2003, 16, 523-527.	1.8	14
54	Bioreactor leaching of uranium from a low grade Indian silicate ore. Biochemical Engineering Journal, 2013, 71, 111-117.	1.8	14

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55	Comparative Performance of Uranium Bioleaching from Low Grade Indian Apatite Rock in Column and Bioreactor. <i>Energy Procedia</i> , 2013, 39, 20-32.	1.8	12
56	Bacterial leaching kinetics for copper dissolution from a lowgrade Indian chalcopyrite ore. <i>Revista Escola De Minas</i> , 2013, 66, 245-250.	0.1	11
57	Process optimization for bio-beneficiation of a chromite concentrate by a Cr(VI) reducing native microbe (<i>Bacillus</i> sp.). <i>International Journal of Mineral Processing</i> , 2013, 123, 129-136.	2.6	10
58	Effect of mechano-chemical activation on bioleaching of Indian Ocean nodules by a fungus. <i>Minerals Engineering</i> , 2010, 23, 1207-1212.	1.8	9
59	Microbial processing of apatite rich low grade Indian uranium ore in bioreactor. <i>Bioresource Technology</i> , 2013, 128, 619-623.	4.8	8
60	Solvothermal synthesis of high value copper powder from copper bleed solution of an Indian copper smelter. <i>Powder Technology</i> , 2013, 233, 335-340.	2.1	5
61	Hydrogen reduction of bleed stream of an Indian copper industry to produce nickel powder. <i>Materials Letters</i> , 2008, 62, 2880-2882.	1.3	2
62	Application of Hydrodynamics Using CFD in Evaluating Efficacy of External Loop Air-lift Reactor Biochemical Leaching of Sea Nodules. <i>Mineral Processing and Extractive Metallurgy Review</i> , 0, , 1-7.	2.6	2
63	KINETICS OF LEACHING OF ZINC FROM SPHALERITE CONCENTRATE WITH SODIUM PERSULPHATE. <i>Canadian Metallurgical Quarterly</i> , 2004, 43, 321-328.	0.4	1
64	Characterisation of Cr(VI) generation in chromite mine overburden and its toxic impact on microbial diversity. <i>International Journal of Environment and Waste Management</i> , 2017, 20, 324.	0.2	0