

Malay K Ghosh

List of Publications by Year in descending order

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60
papers

1,670
citations

430874

18
h-index

289244

40
g-index

61
all docs

61
docs citations

61
times ranked

1756
citing authors

#	ARTICLE	IF	CITATIONS
1	Waste Printed Circuit Boards recycling: an extensive assessment of current status. Journal of Cleaner Production, 2015, 94, 5-19.	9.3	439
2	Leaching of manganese ores using sawdust as a reductant. Minerals Engineering, 2007, 20, 1293-1295.	4.3	109
3	Defluoridation behavior of nanostructured hydroxyapatite synthesized through an ultrasonic and microwave combined technique. Journal of Hazardous Materials, 2011, 185, 29-37.	12.4	99
4	Efficient Photon Conversion via Double Charge Dynamics CeO ₂ @BiFeO ₃ p-n Heterojunction Photocatalyst Promising toward N ₂ Fixation and Phenol Cr(VI) Detoxification. Inorganic Chemistry, 2020, 59, 3856-3873.	4.0	98
5	Hydrolytically stable citrate capped Fe ₃ O ₄ @UiO-66-NH ₂ MOF: A hetero-structure composite with enhanced activity towards Cr (VI) adsorption and photocatalytic H ₂ evolution. Journal of Colloid and Interface Science, 2022, 606, 353-366.	9.4	94
6	Arsenic adsorption on goethite nanoparticles produced through hydrazine sulfate assisted synthesis method. Korean Journal of Chemical Engineering, 2012, 29, 95-102.	2.7	72
7	Visible Light Active Single-Crystal Nanorod/Needle-like MnO ₂ @RGO Nanocomposites for Efficient Photoreduction of Cr(VI). Journal of Physical Chemistry C, 2017, 121, 6039-6049.	3.1	63
8	Leaching of metals from Indian ocean nodules in SO ₂ -H ₂ O-H ₂ SO ₄ -(NH ₄) ₂ SO ₄ medium. Hydrometallurgy, 1999, 53, 169-175.	4.3	49
9	Probing Environmental Remediation of RhB Organic Dye Using MnO ₂ under Visible- Light Irradiation: Structural, Photocatalytic and Mineralization Studies. ChemistrySelect, 2016, 1, 4277-4285.	1.5	49
10	Construing the interactions between MnO ₂ nanoparticle and bovine serum albumin: insight into the structure and stability of a protein-nanoparticle complex. New Journal of Chemistry, 2017, 41, 8130-8139.	2.8	48
11	Leaching kinetics of Cu, Ni and Zn from waste silica rich integrated circuits using mild nitric acid. Hydrometallurgy, 2019, 188, 161-168.	4.3	48
12	Characterization and kinetic study on ammonia leaching of complex copper ore. Transactions of Nonferrous Metals Society of China, 2014, 24, 1587-1595.	4.2	37
13	Oxidative ammonia leaching of sphalerite. International Journal of Mineral Processing, 2002, 66, 241-254.	2.6	34
14	Electrodeposition of manganese metal from sulphate solutions in the presence of sodium octyl sulphate. Hydrometallurgy, 2016, 165, 73-80.	4.3	25
15	Oxidative ammonia leaching of sphalerite. International Journal of Mineral Processing, 2003, 70, 221-234.	2.6	22
16	A Review of Recent Progress on Nano MnO ₂ : Synthesis, Surface Modification and Applications. Journal of Inorganic and Organometallic Polymers and Materials, 2021, 31, 899-922.	3.7	22
17	Dissolution kinetics of nickel from spent catalyst in nitric acid medium. Journal of the Taiwan Institute of Chemical Engineers, 2013, 44, 34-39.	5.3	20
18	Preparation and characterization of EMD from manganese cake - A byproduct of manganese nodule processing. Hydrometallurgy, 2011, 110, 44-49.	4.3	19

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19	Preparation of Sm ₂ O ₃ and Co ₃ O ₄ from SmCo magnet swarf by hydrometallurgical processing in chloride media. <i>Journal of Rare Earths</i> , 2018, 36, 725-732.	4.8	19
20	Sulphuric acid leaching of polymetallic nodules using paper as a reductant. <i>Transactions of the Indian Institute of Metals</i> , 2008, 61, 477-481.	1.5	18
21	Nanoscale ZnO-adsorbent carefully designed for the kinetic and thermodynamic studies of Rhodamine B. <i>Inorganic Chemistry Communication</i> , 2022, 138, 109287.	3.9	17
22	Extraction of Cu and Cr from a spent Cu-Cr catalyst: Recovery enhancement through mechanical activation. <i>Hydrometallurgy</i> , 2013, 136, 8-14.	4.3	15
23	Hydrometallurgical application for treating a Nigerian chalcopyrite ore in chloride medium: Part I. Dissolution kinetics assessment. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2013, 20, 1021-1028.	4.9	15
24	Silicate minerals - Potential source of potash - A review. <i>Minerals Engineering</i> , 2022, 179, 107463.	4.3	15
25	Effect of dissolved impurities during ammonia leaching of pure zinc sulphide. <i>Hydrometallurgy</i> , 1989, 22, 207-221.	4.3	14
26	Mineralogical characterization and leaching behavior of Nigerian ilmenite ore. <i>Transactions of Nonferrous Metals Society of China</i> , 2013, 23, 2743-2750.	4.2	14
27	Pathway of Sucrose Oxidation in Manganese (Pyrolusite) Nodule. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 12233-12241.	3.7	14
28	Extraction of Copper and Zinc from Waste Printed Circuit Boards. <i>Recycling</i> , 2019, 4, 36.	5.0	13
29	Sustainable Process for the Extraction of Potassium from Feldspar Using Eggshell Powder. <i>ACS Omega</i> , 2020, 5, 14990-14998.	3.5	12
30	Production of Potassium Chloride from K-Feldspar Through Roast-Leach-Solvent Extraction Route. <i>Transactions of the Indian Institute of Metals</i> , 2019, 72, 2613-2622.	1.5	11
31	Leaching of Rare Earth Metals from Phosphor Coating of Waste Fluorescent Lamps. <i>Transactions of the Indian Institute of Metals</i> , 2019, 72, 623-634.	1.5	11
32	Critical analysis of metallic and non-metallic fractions in the flotation of waste printed circuit boards. <i>Powder Technology</i> , 2021, 389, 450-459.	4.2	11
33	Dried leaves - Novel reductant for acid leaching of manganese ore. <i>Transactions of the Indian Institute of Metals</i> , 2009, 62, 551-554.	1.5	10
34	Bioleaching of Indian Ocean nodules with in situ iron precipitation by anaerobic Mn reducing consortia. <i>Hydrometallurgy</i> , 2016, 166, 130-135.	4.3	10
35	Reactor and column leaching studies for extraction of copper from two low grade resources: A comparative study. <i>Hydrometallurgy</i> , 2016, 165, 111-117.	4.3	10
36	Extraction of Cu, Zn, and Ni from waste silica-rich integrated circuits by sulfation roasting and water leaching. <i>Chemical Papers</i> , 2020, 74, 663-671.	2.2	10

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37	Selective enhancement of Mn bioleaching from ferromanganese ores in presence of electron shuttles using dissimilatory Mn reducing consortia. <i>Hydrometallurgy</i> , 2019, 186, 269-274.	4.3	9
38	Molecular interactions of MnO ₂ @RGO (manganese dioxide-reduced graphene oxide) nanocomposites with bovine serum albumin. <i>Journal of Biomolecular Structure and Dynamics</i> , 2020, 38, 2038-2046.	3.5	7
39	Oxidative ammonia leaching of pure zinc sulfide in the presence of lead compounds. <i>Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science</i> , 1990, 21, 402-404.	0.4	6
40	Extraction and Purification of Copper from a Nigerian Chalcopyrite Ore Leach Liquor by Dithizone in Kerosene. <i>Solvent Extraction Research and Development</i> , 2015, 22, 135-146.	0.4	6
41	Role of Glycerol Oxidation Pathways in the Reductive Acid Leaching Kinetics of Manganese Nodules Using Glycerol. <i>ACS Omega</i> , 2021, 6, 14903-14910.	3.5	6
42	Assessment of the significant parameters influencing the bio-oxidation and bio-precipitation of iron from industrial leach liquor. <i>Institutions of Mining and Metallurgy Transactions Section C: Mineral Processing and Extractive Metallurgy</i> , 2005, 114, 57-64.	0.6	5
43	Separation and characterization studies of end-of-life mobile printed circuit boards. <i>Particulate Science and Technology</i> , 2021, 39, 467-474.	2.1	5
44	Dissolution Kinetics Potential of a Biotite-Rich Kaolinite Ore for Industrial Applications by Oxalic Acid Solution. <i>Mining, Metallurgy and Exploration</i> , 2019, 36, 1091-1099.	0.8	4
45	Factorial design for process optimization and generation of kinetic data for yttrium and europium leaching. <i>Mineral Processing and Extractive Metallurgy: Transactions of the Institute of Mining and Metallurgy</i> , 2021, 130, 1-9.	0.2	4
46	Behaviour of cobalt during precipitation of manganese from the NH ₃ ⁺ -(NH ₄) ₂ SO ₄ ⁻ , Mn ⁺ , O ₂ system. <i>Hydrometallurgy</i> , 1996, 42, 357-366.	4.3	3
47	Preparation of Industrial Manganese Compound from a Low-Grade Spessartine Ore by Hydrometallurgical Process. <i>Transactions of the Indian Institute of Metals</i> , 2018, 71, 2453-2463.	1.5	3
48	Electrodeposition of nanoMnO ₂ from mineral leach liquor and the investigation on conformational changes of hemoglobin induced by the nanomaterial. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 585, 124102.	4.7	3
49	Structure and activity of lysozyme on binding to lithium-manganese oxide nanocomposites prepared from seabed nodule. <i>Journal of Physics and Chemistry of Solids</i> , 2021, 151, 109794.	4.0	3
50	Aqueous processing of nickel spent catalyst for a value added product. <i>Korean Journal of Chemical Engineering</i> , 2013, 30, 400-404.	2.7	2
51	Extraction equilibrium conditions of beryllium and aluminium from a beryl ore for optimal industrial beryllium compound production. <i>Canadian Metallurgical Quarterly</i> , 2019, 58, 232-240.	1.2	2
52	Quantitative reductive leaching of a low-grade spessartine ore in acidic media. <i>International Journal of Environmental Analytical Chemistry</i> , 2020, 100, 635-646.	3.3	2
53	Leaching of Rare Earth Elements from the Residue Generated by the Lixiviation of Waste Phosphor with Sulphuric Acid. <i>Transactions of the Indian Institute of Metals</i> , 2020, 73, 1081-1091.	1.5	2
54	Processing Nigerian pyrolusite ore, Part I: Characterization and dissolution kinetics analysis. <i>CIM Journal</i> , 2016, 7, 43-51.	0.6	2

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55	Electrodeposition of \hat{I}^3 -MnO ₂ from Manganese Nodule Leach Liquor: Surface Modification and Electrochemical Applications. Minerals, Metals and Materials Series, 2018, , 165-174.	0.4	1
56	Enrichment of a Nigerian chromite ore for metallurgical application by dense medium flotation and magnetic separation. Metallurgical Research and Technology, 2019, 116, 324.	0.7	1
57	R&D Efforts of CSIR-IMMT Toward Solving Some Issues Related to Aluminum Production. Journal of Sustainable Metallurgy, 2020, 6, 9-17.	2.3	1
58	Efficacy of Dichlorophenolindophenol (DCIP) as Screening Test for Hb E: Revisited. Indian Journal of Hematology and Blood Transfusion, 2020, 36, 535-541.	0.6	1
59	Recovery of Lead as Lead Sulphide from Anode Slime Using Hydrometallurgical Technique. Journal of the Institution of Engineers (India): Series D, 2021, 102, 489-494.	1.0	1
60	Effect of Tween 80 on electrochemical deposition of cobalt from sulphate solutions. Russian Journal of Non-Ferrous Metals, 2016, 57, 331-337.	0.6	0