

Gjergj A Dodbiba

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2639371/publications.pdf>

Version: 2024-02-01

131
papers

2,282
citations

236925

25
h-index

254184

43
g-index

138
all docs

138
docs citations

138
times ranked

2024
citing authors

#	ARTICLE	IF	CITATIONS
1	The tremendous potential of deep-sea mud as a source of rare-earth elements. <i>Scientific Reports</i> , 2018, 8, 5763.	3.3	157
2	Calcination of low-grade laterite for concentration of Ni by magnetic separation. <i>Minerals Engineering</i> , 2010, 23, 282-288.	4.3	118
3	Application of progressive freeze-concentration for desalination. <i>Desalination</i> , 2013, 319, 33-37.	8.2	89
4	The recycling of plastic wastes from discarded TV sets: comparing energy recovery with mechanical recycling in the context of life cycle assessment. <i>Journal of Cleaner Production</i> , 2008, 16, 458-470.	9.3	87
5	Recovering Indium from the Liquid Crystal Display of Discarded Cellular Phones by Means of Chloride-Induced Vaporization at Relatively Low Temperature. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2009, 40, 891-900.	2.2	81
6	Regional energy-related carbon emission characteristics and potential mitigation in eco-industrial parks in South Korea: Logarithmic mean Divisia index analysis based on the Kaya identity. <i>Energy</i> , 2012, 46, 231-241.	8.8	77
7	Progress in Separating Plastic Materials for Recycling. <i>Physical Separation in Science and Engineering</i> , 2004, 13, 165-182.	1.0	75
8	Combination of sink-float separation and flotation technique for purification of shredded PET-bottle from PE or PP flakes. <i>International Journal of Mineral Processing</i> , 2002, 65, 11-29.	2.6	73
9	The use of air tabling and triboelectric separation for separating a mixture of three plastics. <i>Minerals Engineering</i> , 2005, 18, 1350-1360.	4.3	72
10	Evaluation of a recycling process for printed circuit board by physical separation and heat treatment. <i>Waste Management</i> , 2014, 34, 1264-1273.	7.4	71
11	Leaching of indium from obsolete liquid crystal displays: Comparing grinding with electrical disintegration in context of LCA. <i>Waste Management</i> , 2012, 32, 1937-1944.	7.4	63
12	Removal of insoluble chloride from bottom ash for recycling. <i>Waste Management</i> , 2008, 28, 1317-1323.	7.4	57
13	Reduction, reuse and recycle of spent Li-ion batteries for automobiles: A review. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2021, 28, 179-192.	4.9	55
14	Recovery of rare earth elements from aqueous solution obtained from Vietnamese clay minerals using dried and carbonized parachlorella. <i>Journal of Environmental Chemical Engineering</i> , 2014, 2, 1070-1081.	6.7	53
15	Triboelectrostatic Separation of ABS, PS and PP Plastic Mixture. <i>Materials Transactions</i> , 2003, 44, 161-166.	1.2	52
16	A novel approach for evaluating the performance of eco-industrial park pilot projects. <i>Journal of Cleaner Production</i> , 2013, 39, 50-59.	9.3	51
17	Investigating magnetorheological properties of a mixture of two types of carbonyl iron powders suspended in an ionic liquid. <i>Journal of Magnetism and Magnetic Materials</i> , 2008, 320, 1322-1327.	2.3	49
18	Leaching of cathode materials from spent lithium-ion batteries by using a mixture of ascorbic acid and HNO ₃ . <i>Hydrometallurgy</i> , 2021, 205, 105746.	4.3	49

#	ARTICLE	IF	CITATIONS
19	Electrostatic Separation of the Shredded Plastic Mixtures Using A Tribo-Cyclone. Magnetic & Electrical Separation, 2002, 11, 63-92.	0.5	46
20	Separation of Rare Earth Fluorescent Powders by Two-Liquid Flotation using Organic Solvents. Japanese Journal of Applied Physics, 2008, 47, 5093.	1.5	42
21	Sorption of Cr(VI) anions in aqueous solution using carbonized or dried pineapple leaves. Chemical Engineering Journal, 2011, 172, 906-913.	12.7	39
22	Selective recovery of rare earth elements from aqueous solution obtained from coal power plant ash. Journal of Environmental Chemical Engineering, 2016, 4, 3761-3766.	6.7	36
23	Long-Term Stability of Different Kinds of Gas Nanobubbles in Deionized and Salt Water. Materials, 2021, 14, 1808.	2.9	32
24	Leaching of Rare-Earth Elements and Their Adsorption by Using Blue-Green Algae. Materials Transactions, 2011, 52, 1799-1806.	1.2	29
25	Separation Performance of PVC and PP Plastic Mixture Using Air Table. Physical Separation in Science and Engineering, 2003, 12, 71-86.	1.0	26
26	Recovery of LiCoO ₂ from Wasted Lithium Ion Batteries by using Mineral Processing Technology. Resources Processing, 2004, 51, 3-7.	0.4	24
27	Promising Approach for Recycling of Spent CIGS Targets by Combining Electrochemical Techniques with Dehydration and Distillation. ACS Sustainable Chemistry and Engineering, 2018, 6, 6950-6956.	6.7	24
28	Combination of Triboelectrostatic Separation and Air Tabling for Sorting Plastics from a Multi-Component Plastic Mixture. Materials Transactions, 2003, 44, 2427-2435.	1.2	23
29	Synthesis of iron-based adsorbents and their application in the adsorption of molybdenum ions in nitric acid solution. Chemical Engineering Journal, 2011, 166, 496-503.	12.7	23
30	A sustainable approach to separate and recover indium and tin from spent indium-tin oxide targets. RSC Advances, 2017, 7, 52017-52023.	3.6	23
31	Characterization of Magnetorheological Suspension for Seal. Journal of Intelligent Material Systems and Structures, 1999, 10, 770-774.	2.5	21
32	A Novel Flow Sheet for Processing of Used Lithium-ion Batteries for Recycling. Resources Processing, 2011, 58, 9-13.	0.4	20
33	Two-Liquid Flotation: Heterocoagulation of Fine Particles in Polar Organic Solvent. Materials Transactions, 2007, 48, 1095-1104.	1.2	19
34	Hydration Behaviour of Ecocement in Presence of Metakaolin. Resources Processing, 2004, 51, 35-41.	0.4	18
35	Integrating sulfidization with neutralization treatment for selective recovery of copper and zinc over iron from acid mine drainage. Minerals Engineering, 2013, 45, 100-107.	4.3	18
36	MR FLUID OF LIQUID GALLIUM DISPERSING MAGNETIC PARTICLES. International Journal of Modern Physics B, 2005, 19, 1430-1436.	2.0	17

#	ARTICLE	IF	CITATIONS
37	FeNbVBALLOY PARTICLES SUSPENDED IN LIQUID GALLIUM: INVESTIGATING THE MAGNETIC PROPERTIES OF THE MR SUSPENSION. International Journal of Modern Physics B, 2011, 25, 947-955.	2.0	16
38	Adsorption of Cesium Ion on Various Clay Minerals and Remediation of Cesium Contaminated Soil in Japan. Resources Processing, 2013, 60, 13-17.	0.4	16
39	Evaluation of the flocculation and de-flocculation performance and mechanism of polymer flocculants. Water Science and Technology, 2014, 69, 1249-1258.	2.5	16
40	Removal of arsenic from wastewater using iron compound: Comparing two different types of adsorbents in the context of LCA. Resources, Conservation and Recycling, 2009, 53, 688-697.	10.8	15
41	Separation of palladium and silver from semiconductor solid waste by means of liquid-liquid-powder extraction using dodecyl amine acetate as a surfactant collector. Separation and Purification Technology, 2018, 191, 86-93.	7.9	15
42	Structure and magnetic properties of coprecipitated nickel-zinc ferrite-doped rare earth elements of Sc, Dy, and Gd. Journal of Materials Science: Materials in Electronics, 2021, 32, 13511-13526.	2.2	15
43	Measurement of particle size distribution of silica nanoparticles by interactive force apparatus under an electric field. Advanced Powder Technology, 2010, 21, 419-423.	4.1	13
44	Movement of liquid gallium dispersing low concentration of temperature sensitive magnetic particles under magnetic field. Journal of Magnetism and Magnetic Materials, 2011, 323, 1207-1210.	2.3	13
45	Measurements of size distribution of titanium dioxide fine particles in a highly concentrated non-aqueous suspension by using particle self-assembly under an electric field. Advanced Powder Technology, 2012, 23, 517-522.	4.1	13
46	Separation of ultrafine particles of alumina and zircon by liquid-liquid extraction using kerosene as the organic phase and sodium dodecylsulfate (SDS) as the surfactant collector for abrasive manufacturing waste recycling. Separation and Purification Technology, 2013, 108, 133-138.	7.9	13
47	Free radical degradation in aqueous solution by blowing hydrogen and carbon dioxide nanobubbles. Scientific Reports, 2021, 11, 3068.	3.3	13
48	Study on the adsorption behavior of tin from waste liquid crystal display using a novel macroporous silica-based adsorbent in one-step separation. Separation and Purification Technology, 2022, 292, 121006.	7.9	13
49	Recovery of phosphorus from Sewage Sludge Ash (SSA) by heat treatment followed by high gradient magnetic separation and flotation. Advanced Powder Technology, 2017, 28, 755-762.	4.1	12
50	A circulating electrolyte for a high performance carbon-based dye-sensitized solar cell. Chemical Communications, 2017, 53, 5561-5564.	4.1	12
51	Stability and Free Radical Production for CO ₂ and H ₂ in Air Nanobubbles in Ethanol Aqueous Solution. Nanomaterials, 2022, 12, 237.	4.1	12
52	SYNTHESIS OF AN IONIC LIQUID-BASED MAGNETORHEOLOGICAL FLUID DISPERSING Fe₈₄ Nb₃ V₄ B₉ POWDERS. International Journal of Modern Physics B, 2010, 24, 1227-1234.	2.6	12
53	Keeping gallium metal to liquid state under the freezing point by using silica nanoparticles. Applied Physics Letters, 2011, 99, .	3.3	11
54	Two-step accelerated mineral carbonation and decomposition analysis for the reduction of CO ₂ emission in the eco-industrial parks. Journal of Environmental Sciences, 2014, 26, 1411-1422.	6.1	10

#	ARTICLE	IF	CITATIONS
55	Study on the Synthesis of Hydroxyapatite under Highly Alkaline Conditions. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 4385-4396.	3.7	10
56	Selective Precipitation of Copper and Zinc over Iron from Acid Mine Drainage by Neutralization and Sulfidization for Recovery. <i>International Journal of the Society of Materials Engineering for Resources</i> , 2014, 20, 136-140.	0.1	9
57	Liberation of various types of composite materials by controlled underwater explosion. <i>Minerals Engineering</i> , 2016, 89, 63-70.	4.3	9
58	Leaching behavior of indium from waste liquid crystal display: Further study on the coupling effect of multi-factors for optimum leaching process. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107930.	6.7	9
59	Assessing Different Recycling Options for Plastic Wastes from Discarded Mobile Phones in the Context of LCA. <i>Resources Processing</i> , 2007, 54, 29-34.	0.4	8
60	Mineral carbonation by blowing incineration gas containing CO ₂ into the solution of fly ash and ammonia for carbon capture and storage. <i>Geosystem Engineering</i> , 2014, 17, 125-135.	1.4	8
61	A novel method for simultaneous evaluation of particle geometry by using image processing analysis. <i>Powder Technology</i> , 2021, 393, 60-73.	4.2	8
62	Dispersion of submicron Ni particles into liquid gallium. <i>Magnetohydrodynamics</i> , 2008, 44, 97-104.	0.3	8
63	Classification of submicron Ni particles by heterocoagulation. <i>Powder Technology</i> , 2007, 173, 19-28.	4.2	7
64	Synthesis of silica-coated ferromagnetic fine powder by heterocoagulation. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 204105.	1.8	7
65	Recovery of Indium and Gallium from Spent IGZO Targets by Leaching and Solvent Extraction. <i>Journal of Chemical Engineering of Japan</i> , 2018, 51, 675-682.	0.6	7
66	Sulfation-“Roasting”-Leaching-“Precipitation Processes for Selective Recovery of Erbium from Bottom Ash. <i>Sustainability</i> , 2019, 11, 3461.	3.2	7
67	Optimization of the process parameters for the manufacturing of open-cells iron foams with high energy absorption. <i>Procedia Structural Integrity</i> , 2016, 2, 2277-2282.	0.8	6
68	Life Cycle Assessment: A Tool for Evaluating and Comparing Different Treatment Options for Plastic Wastes from Old Television Sets. <i>Data Science Journal</i> , 2007, 6, S39-S50.	1.3	6
69	Recovering Carbon from Korean Anthracite by Hindered-Settling Separation. <i>Resources Processing</i> , 2004, 51, 52-55.	0.4	6
70	Recovering PVC by Triboelectric Separation and Air Tabling. <i>Resources Processing</i> , 2006, 53, 153-159.	0.4	6
71	Two-Liquid Flotation for Separating Mixtures of Ultra-Fine Rare Earth Fluorescent Powders for Material Recycling-“A Review. <i>Colloids and Interfaces</i> , 2018, 2, 7.	2.1	5
72	Recovery of Dysprosium Ions by Biosorption-desorption onto Organic Plants Wastes. <i>International Journal of the Society of Materials Engineering for Resources</i> , 2014, 20, 141-146.	0.1	5

#	ARTICLE	IF	CITATIONS
73	THE CONCOMITANT-EFFECT OF ELECTORRHEOLOGICAL FLUID IN A CONTROL FLOW FIELD. International Journal of Modern Physics B, 2005, 19, 1263-1269.	2.0	4
74	Liquid Gallium based temperature sensitive functional fluid dispersing chemically synthesized FeMB nanoparticles. Journal of Physics: Conference Series, 2009, 149, 012108.	0.4	4
75	Optimization of lithium electrosorption from brine deposit. Geosystem Engineering, 2014, 17, 157-162.	1.4	4
76	Production of the Hydroxyl Radical and Removal of Formaldehyde by Calcined Green Tuff Powder and Tile. Sustainability, 2019, 11, 3390.	3.2	4
77	EFFECT OF CARBONIZATION ON BANANA PEELS FOR REMOVAL OF CADMIUM IONS FROM AQUEOUS SOLUTION. Environmental Engineering and Management Journal, 2016, 15, 851-860.	0.6	4
78	Advanced Sewage Treatment with Hollow Fiber Bioreactor. Resources Processing, 2005, 52, 167-171.	0.4	4
79	Liquid-Liquid Separation of Fine Zircon-Alumina Mixtures for Abrasives Recycling. Resources Processing, 2012, 59, 81-84.	0.4	4
80	Arsenic (III) oxidation and removal from artificial mine wastewater by blowing O2 nanobubbles. Journal of Water Process Engineering, 2022, 47, 102780.	5.6	4
81	Effect of particle size distribution on formation of linear configuration of dielectric fine particles under the electric field. Journal of Physics: Conference Series, 2009, 147, 012003.	0.4	3
82	Rheological Properties and Movement of Fluid Dispersing Ultrafine Ferromagnetic Particles in Liquid Gallium. Nihon Reoroji Gakkaishi, 2010, 38, 67-72.	1.0	3
83	Evaluating the Practical Application of Underwater Explosion for Recycling. Resources Processing, 2011, 58, 52-58.	0.4	3
84	Fundamental Study on Recovery of WC from Hardmetal Sludge by Using Mineral Processing. Materials Transactions, 2011, 52, 1471-1476.	1.2	3
85	A Novel Separation Method for Plastic of Discarded Appliance Including Black Plastic by Using Raman Spectroscopy. Resources Processing, 2013, 60, 65-71.	0.4	3
86	Air Tabling – A Dry Gravity Solid – Solid Separation Technique. , 2015, , 527-555.		3
87	Removal of Banana Tree Fungi Using Green Tuff Rock Powder Waste Containing Zeolite. Catalysts, 2019, 9, 1049.	3.5	3
88	Removal of Impurities from Shungite Via a Combination of Physical and Chemical Treatments. Minerals (Basel, Switzerland), 2021, 11, 245.	2.0	3
89	Recovery of Heavy Metals by Flotation from Incinerated Automobile Shredder Residues. Resources Processing, 2007, 54, 152-157.	0.4	3
90	Separation of a mixture of rare earth fluorescent powders by two-liquid flotation using polar and non-polar organic solvents for recycling. , 2007, , .		2

#	ARTICLE	IF	CITATIONS
91	Arsenic Removal in Low-Grade Fluorite by Using Mineral Processing Techniques. Resources Processing, 2010, 57, 105-108.	0.4	2
92	Copper Recovery from Printed Circuit Board by Carbonization. International Journal of the Society of Materials Engineering for Resources, 2010, 17, 53-57.	0.1	2
93	Nano to Micro Particle Size Distribution Measurement in the Fluid by Interactive Force Apparatus for Fine Particle Processing. Journal of Nanoscience and Nanotechnology, 2013, 13, 8184-8189.	0.9	2
94	Urban Biomining: New Challenges for a Successful Exploitation of WEEE by Means of a Biotechnological Approach. , 2015, , 347-376.		2
95	Effect of Calcination Temperature on the Hydroxyl Radical Generation of Calcined Dolomite Suspension. Journal of MMIJ, 2018, 134, 151-157.	0.3	2
96	Nano Bubble and Emulsion Size Distribution Measurement by Interactive Force Apparatus. International Journal of the Society of Materials Engineering for Resources, 2018, 23, 158-161.	0.1	2
97	Enrichment of silicocarnotite from silicocarnotite and gehlenite mixtures using a kerosene-based liquid-liquid separation process. Journal of Environmental Chemical Engineering, 2019, 7, 103387.	6.7	2
98	Development of Elemental Technologies for Seafloor Mineral Processing of Seafloor Massive Sulfides. , 2019, , .		2
99	Economic Evaluation of Recycled Waste Acid and Alkali Solutions in the Printed Circuit Board Process of the Eco-industrial Park. Resources Processing, 2012, 59, 9-16.	0.4	2
100	Adsorption of Molybdenum Ion in Nitric Acid Solution by Using a Pb-Fe Based Adsorbent. International Journal of the Society of Materials Engineering for Resources, 2010, 17, 28-34.	0.1	2
101	Upgrading of MgO grade in Dolomite Ore by Flotation. Resources Processing, 2009, 56, 55-63.	0.4	2
102	Fundamental Study on the Electrical Disintegration of Cobalt-Rich-Crust for Platinum Recovery. Resources Processing, 2009, 56, 26-32.	0.4	2
103	A Study on the Manufacture of Clinker Using Low Grade Limestone and Waste Paper Sludge. Resources Processing, 2004, 51, 163-168.	0.4	1
104	Preparation of Limestone Particles with High Value of Whiteness Parameter by Coating with Calcium Carbonate. Resources Processing, 2007, 54, 128-138.	0.4	1
105	Development of a Manufacturing Process of Biomass Solid Fuel with Wasted Coffee Beans and its CO2 Assessment. Resources Processing, 2009, 56, 21-25.	0.4	1
106	Leaching of Platinum from Cobalt-Rich Crust by Hydrochloric Acid with Hydrogen Peroxide. Resources Processing, 2009, 56, 165-173.	0.4	1
107	Boron Removal and Recovery by Adsorbing Effect of Boron on Thermally Treated Dolomite in the Water Containing Boron Ion. Resources Processing, 2012, 59, 149-154.	0.4	1
108	Development of seafloor mineral processing for Seafloor Massive Sulfides. , 2016, , .		1

#	ARTICLE	IF	CITATIONS
109	Recovery of Phosphorus from Sewage Sludge Ash by Heat treatment and Liquid-Liquid Separation. International Journal of the Society of Materials Engineering for Resources, 2018, 23, 93-97.	0.1	1
110	Beneficiation of Seafloor Massive Sulfides by Liquid-Liquid Extraction. Journal of Offshore Mechanics and Arctic Engineering, 2022, 144, .	1.2	1
111	The Recovery and Life Cycle Assessment of Nickel Particles in A Multi-Solenoid Open-Gradient Magnetic Separator. Magnetic & Electrical Separation, 2002, 11, 127-139.	0.5	1
112	Erasing Data and Recycling of Optical Disks. Data Science Journal, 2007, 6, S11-S17.	1.3	1
113	Recovery of Precious Metal Ions from Wastewater Generated during the Refining Process of Scrap Materials. Resources Processing, 2008, 55, 169-177.	0.4	1
114	Improved Method for Preparing Nanospheres from Pomelo Peel to Achieve High Graphitization at a Low Temperature. Crystals, 2022, 12, 403.	2.2	1
115	MR FLUID OF LIQUID GALLIUM DISPERSING MAGNETIC PARTICLES. , 2005, , .		0
116	A Preliminary Study on Employing High-Voltage Impulse for the Exploitation of Cobalt-Rich Crust. International Journal of the Society of Materials Engineering for Resources, 2010, 17, 126-130.	0.1	0
117	Material Recycling and Recycling System using RFID Technology. International Journal of the Society of Materials Engineering for Resources, 2010, 17, 163-167.	0.1	0
118	Nickel Recovery from Printed Circuit Board and Distribution of Other Elements by Heat Treatment and Magnetic Separation. Journal of MMIJ, 2011, 127, 584-591.	0.3	0
119	FeNbVB ALLOY PARTICLES SUSPENDED IN LIQUID GALLIUM: INVESTIGATING THE MAGNETIC PROPERTIES THE MR SUSPENSION. , 2011, , .		0
120	Measurement of Metal Grade of Ore Particles in Slurry Using Laser-Induced Breakdown Spectroscopy. , 2018, , .		0
121	Enhanced elution of chloride ions from incinerator bottom ash. Chemical Engineering Communications, 2021, 208, 1686-1694.	2.6	0
122	Relative distribution enhancement: a new factor for the evaluation of synergistic solvent extraction. Journal of Chemical Technology and Biotechnology, 2021, 96, 2827-2836.	3.2	0
123	A Fundamental Study on the Separation of Papers with Flotation Method and Sink-Float Method.. Resources Processing, 2001, 48, 3-8.	0.1	0
124	1213 Assessing Different Treatment Options for Plastic Wastes from Discarded Television Sets in the Context of LCA. The Proceedings of Design & Systems Conference, 2005, 2005.15, 94-97.	0.0	0
125	THE CONCOMITANT-EFFECT OF ELECTRO-RHEOLOGICAL FLUID IN A CONTROL FLOW FIELD. , 2005, , .		0
126	Assessing Different Treatment Options for Plastic Wastes from Discarded Television Sets in the Context of LCA. International Journal of the Society of Materials Engineering for Resources, 2006, 14, 51-60.	0.1	0

#	ARTICLE	IF	CITATIONS
127	INVESTIGATION OF MAGNETEREHOLOGICAL PROPERTIES OF A MIXTURE OF CARBONYL IRON POWDERS SUSPENDED IN IONIC LIQUID. , 2007, , .		0
128	Evaluating Public Availability of Environmental Information: an Indicator-Based Assessment. Resources Processing, 2008, 55, 16-25.	0.4	0
129	Platinum Recovery from Hydrochloric Acid Leaching Solution of Cobalt-Rich Crust by Seaweed Biosorption and Activated Carbon. Resources Processing, 2010, 57, 20-28.	0.4	0
130	A Novel Process for Recovering Valuable Materials from Spent Lithium-Ion Batteries. , 2013, , 370-376.		0
131	Life Cycle Impact Assessment by Using LIME2 of Various Gold Leaching Systems from Metal Scrap Containing Gold. Journal of MMJ, 2016, 132, 31-38.	0.3	0