

Isabel Padilla

List of Publications by Year in descending order

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55
papers

981
citations

394421

19
h-index

501196

28
g-index

56
all docs

56
docs citations

56
times ranked

961
citing authors

#	ARTICLE	IF	CITATIONS
1	One-step synthesis of NaP1, SOD and ANA from a hazardous aluminum solid waste. <i>Microporous and Mesoporous Materials</i> , 2016, 226, 267-277.	4.4	64
2	Preconcentration and matrix separation of precious metals in geological and related materials using metalix-chelamine resin prior to inductively coupled plasma mass spectrometry. <i>Analytica Chimica Acta</i> , 1997, 340, 31-40.	5.4	56
3	Pseudo-emulsion based hollow fiber with strip dispersion pertraction of iron(III) using (PJMTH+) ₂ (SO ₄ ²⁻) ⁻ ionic liquid as carrier. <i>Chemical Engineering Journal</i> , 2010, 157, 366-372.	12.7	54
4	Concerns on liquid mercury and mercury-containing wastes: A review of the treatment technologies for the safe storage. <i>Journal of Environmental Management</i> , 2012, 101, 197-205.	7.8	51
5	Zero-waste process for the transformation of a hazardous aluminum waste into a raw material to obtain zeolites. <i>Journal of Cleaner Production</i> , 2020, 255, 120178.	9.3	39
6	Speciation of chromium in steelmaking solid wastes by selective retention on ion-exchange media and determination by isotope dilution inductively coupled plasma mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2000, 15, 1564-1568.	3.0	33
7	Synthesis and characterisation of hydrotalcites produced by an aluminium hazardous waste: A comparison between the use of ammonia and the use of triethanolamine. <i>Applied Clay Science</i> , 2015, 115, 115-123.	5.2	33
8	Hydrotalcite-like compounds: A way to recover a hazardous waste in the aluminium tertiary industry. <i>Applied Clay Science</i> , 2014, 95, 41-49.	5.2	32
9	Selection of high temperature materials for concentrated solar power systems: Property maps and experiments. <i>Solar Energy</i> , 2015, 112, 246-258.	6.1	29
10	Formation of metacinnabar by milling of liquid mercury and elemental sulfur for long term mercury storage. <i>Science of the Total Environment</i> , 2010, 408, 4341-4345.	8.0	28
11	Phosphine oxide mediate transport: modelling of mass transfer in supported liquid membrane transport of gold (III) using Cyanex 923. <i>Chemical Engineering Science</i> , 2001, 56, 3115-3122.	3.8	26
12	Mullite-Based Ceramics from Mining Waste: A Review. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 332.	2.0	26
13	Dispersion-Free Solvent Extraction of Cr(VI) from Acidic Solutions Using Hollow Fiber Contactor. <i>Environmental Science & Technology</i> , 2009, 43, 7718-7722.	10.0	25
14	Study of heterogeneities in steels and determination of soluble and total aluminium and titanium concentration by laser ablation inductively coupled plasma mass spectrometry. <i>Talanta</i> , 2007, 71, 2108-2120.	5.5	24
15	Al-Waste-Based Zeolite Adsorbent Used for the Removal of Ammonium from Aqueous Solutions. <i>International Journal of Chemical Engineering</i> , 2018, 2018, 1-11.	2.4	24
16	Highly efficient removal of aluminum, iron, and manganese ions using Linde type-A zeolite obtained from hazardous waste. <i>Chemosphere</i> , 2021, 267, 128919.	8.2	24
17	Use of boric acid to improve the microwave-assisted dissolution process to determine fluoride forming elements in steels by flow injection inductively coupled plasma mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 1998, 13, 1193-1197.	3.0	22
18	Slurry sampling electrothermal vaporization inductively coupled plasma mass spectrometry for steelmaking flue dust analysis. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2000, 55, 185-196.	2.9	22

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19	Characterization of the Aluminas Formed During the Thermal Decomposition of Boehmite by the Rietveld Refinement Method. <i>International Journal of Applied Ceramic Technology</i> , 2015, 12, E178.	2.1	22
20	Eco-friendly bench-scale zeolitization of an Al-containing waste into gismondine-type zeolite under effluent recycling. <i>Journal of Cleaner Production</i> , 2017, 161, 792-802.	9.3	21
21	Determination of minor elements in steelmaking flue dusts using laser ablation inductively coupled plasma mass spectrometry. <i>Talanta</i> , 2005, 67, 136-143.	5.5	20
22	A micro-scale mercury cathode electrolysis procedure for on-line flow injection inductively coupled plasma mass spectrometry trace elements analysis in steel samples. <i>Analytica Chimica Acta</i> , 1999, 389, 247-255.	5.4	18
23	Evaluation of different sample introduction approaches for the determination of boron in unalloyed steels by inductively coupled plasma mass spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2005, 60, 73-79.	2.9	18
24	Depth profile analysis of copper coating on steel using laser ablation inductively coupled plasma mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2005, 20, 612.	3.0	18
25	The removal of toxic metals from liquid effluents by ion exchange resins. Part I: Chromium(VI)/Sulphate/Dowex 1x8. <i>Revista De Metalurgia</i> , 2002, 38, 306-311.	0.5	17
26	Dehydration of Gypsum Rock by Solar Energy: Preliminary Study. <i>Geomaterials</i> , 2014, 04, 82-91.	0.6	17
27	Characterization of Solid Wastes from Aluminum Tertiary Sector: The Current State of Spanish Industry. <i>Journal of Minerals and Materials Characterization and Engineering</i> , 2015, 03, 55-64.	0.4	17
28	Spark ablation inductively coupled plasma mass spectrometry analysis of minor and trace elements in low and high alloy steels using single calibration curves. <i>Journal of Analytical Atomic Spectrometry</i> , 1999, 14, 1155-1162.	3.0	15
29	Comparison of Laser Ablation and Dried Solution Aerosol as Sampling Systems in Inductively Coupled Plasma Mass Spectrometry. <i>Applied Spectroscopy</i> , 2004, 58, 1481-1487.	2.2	15
30	Evaluation of thermal shock resistance of silicon oxycarbide materials for high-temperature receiver applications. <i>Solar Energy</i> , 2018, 173, 256-267.	6.1	15
31	Membrane-based extraction with strip/organic dispersion methodologies for metals removal and recovery from wastewaters. <i>Desalination and Water Treatment</i> , 2012, 40, 282-297.	1.0	12
32	The Application of Thermal Solar Energy to High Temperature Processes: Case Study of the Synthesis of Alumina from Boehmite. <i>Scientific World Journal, The</i> , 2014, 2014, 1-7.	2.1	11
33	Production of added-value materials from a hazardous waste in the aluminium tertiary industry: Synergistic effect between hydrotalcites and glasses. <i>Journal of Environmental Chemical Engineering</i> , 2015, 3, 2552-2559.	6.7	11
34	A microencapsulation process of liquid mercury by sulfur polymer stabilization/solidification technology. Part I: Characterization of materials. <i>Revista De Metalurgia</i> , 2012, 48, 45-57.	0.5	11
35	Single and competitive adsorptive removal of lead, cadmium, and mercury using zeolite adsorbent prepared from industrial aluminum waste. , 0, 126, 181-195.		11
36	Effects of Different Raw Materials in the Synthesis of Boehmite and γ -Alumina. <i>Journal of Chemistry</i> , 2016, 2016, 1-6.	1.9	10

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37	Study of the application of air-water flow injection inductively coupled plasma mass spectrometry for the determination of calcium in steels. <i>Journal of Analytical Atomic Spectrometry</i> , 1996, 11, 1037.	3.0	9
38	Evaluation of a Desolvating Microconcentric Nebulizer in Inductively Coupled Plasma Mass Spectrometry to Improve the Determination of Arsenic in Steels. <i>Applied Spectroscopy</i> , 1999, 53, 974-978.	2.2	9
39	Preconcentration and analysis of gold from cyanide solutions with the use of a microcolumn packed with the phosphine oxide Cyanex 921. <i>Talanta</i> , 1996, 43, 313-318.	5.5	7
40	Spark Ablation Inductively Coupled Plasma Mass Spectrometry Applied to the Semi-Quantitative Panoramic Analysis of Ferroalloys. <i>Applied Spectroscopy</i> , 2000, 54, 1032-1039.	2.2	7
41	Silicon Oxycarbide and Silicon Oxycarbonitride Materials under Concentrated Solar Radiation. <i>Materials</i> , 2021, 14, 1013.	2.9	7
42	Waste and Solar Energy: An Eco-Friendly Way for Glass Melting. <i>ChemEngineering</i> , 2021, 5, 16.	2.4	6
43	Kinetic study of the transformation of sodalite to nepheline. <i>Journal of the American Ceramic Society</i> , 2022, 105, 4336-4347.	3.8	6
44	On-line ion-exchange matrix separation and inductively coupled plasma mass spectrometric determination of trace impurities in high-purity aluminium. <i>Journal of Analytical Atomic Spectrometry</i> , 2002, 17, 502-506.	3.0	5
45	X-ray fluorescence determination of major and minor elements in ferrotitanium, ferroniobium and ferrovanadium from compressed pellets and fusion beads. <i>X-Ray Spectrometry</i> , 2002, 31, 424-431.	1.4	5
46	Extraction of vanadium(V) from sulfate solutions by ACORGA M5640. <i>Journal of Chemical Technology and Biotechnology</i> , 2003, 78, 529-533.	3.2	5
47	Industrial aluminum hazardous waste as a new raw material for zeolite synthesis. <i>WIT Transactions on Ecology and the Environment</i> , 2014, , .	0.0	5
48	Determination of Phosphorus Content in Steels Using Flow Injection into an Argon-Water Carrier for Inductively Coupled Plasma-Mass Spectrometry.. <i>ISIJ International</i> , 1997, 37, 878-884.	1.4	3
49	Study of the parameters in microwave dissolution methods using a magnetic stirring device in the microwave unit. Application to dissolution of high-carbon ferrochromium. <i>Analyst, The</i> , 1998, 123, 1209-1214.	3.5	3
50	Influence of Different Metal Matrices on Manganese Signal Response in Laser Ablation Inductively Coupled Plasma-Mass Spectrometry. <i>Applied Spectroscopy</i> , 2009, 63, 859-864.	2.2	3
51	Sustainable glasses in the SiO ₂ -P ₂ O ₅ -CaO-K ₂ O system from waste and concentrated solar power. <i>Boletín De La Sociedad Española De Cerámica Y Vidrio</i> , 2022, , .	1.9	3
52	Sustainable Management of Salt Slag. <i>Sustainability</i> , 2022, 14, 4887.	3.2	3
53	Synthetic Samples Preparation to Identify Al ₂ O ₃ Particles in Steel by Laser Ablation ICP Mass Spectrometry. <i>ISIJ International</i> , 2008, 48, 194-199.	1.4	2
54	Membrane-based extraction with strip/organic dispersion methodologies for metals removal and recovery from wastewaters. , 0, 40, 282-297.		1

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55	Class Lightweight Aggregates from Glass Cullet and Mining and Food Industry Carbonate Waste. <i>Materials</i> , 2022, 15, 1223.	2.9	1