Isabel Padilla

List of Publications by Year
in descending order

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Version: 2024-02-01

55	981	394421	501196
papers	citations	19	28
		h-index	g-index

56	56	56	961
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Sustainable glasses in the SiO2â€“P2O5â€“CaOâ€“K2O system from waste and concentrated solar power. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2022, , .	1.9	3
2	Kinetic study of the transformation of sodalite to nepheline. Journal of the American Ceramic Society, 2022, 105, 4336-4347.	3.8	6
3	Glass Lightweight Aggregates from Glass Cullet and Mining and Food Industry Carbonate Waste. Materials, 2022, 15, 1223.	2.9	1
4	Sustainable Management of Salt Slag. Sustainability, 2022, 14, 4887.	3.2	3
5	Highly efficient removal of aluminum, iron, and manganese ions using Linde type-A zeolite obtained from hazardous waste. Chemosphere, 2021, 267, 128919.	8.2	24
6	Silicon Oxycarbide and Silicon Oxycarbonitride Materials under Concentrated Solar Radiation. Materials, 2021, 14, 1013.	2.9	7
7	Mullite-Based Ceramics from Mining Waste: A Review. Minerals (Basel, Switzerland), 2021, 11, 332.	2.0	26
8	Waste and Solar Energy: An Eco-Friendly Way for Glass Melting. ChemEngineering, 2021, 5, 16.	2.4	6
9	Zero-waste process for the transformation of a hazardous aluminum waste into a raw material to obtain zeolites. Journal of Cleaner Production, 2020, 255, 120178.	9.3	39
10	Al-Waste-Based Zeolite Adsorbent Used for the Removal of Ammonium from Aqueous Solutions. International Journal of Chemical Engineering, 2018, 2018, 1-11.	2.4	24
11	Evaluation of thermal shock resistance of silicon oxycarbide materials for high-temperature receiver applications. Solar Energy, 2018, 173, 256-267.	6.1	15
12	Eco-friendly bench-scale zeolitization of an Al-containing waste into gismondine-type zeolite under effluent recycling. Journal of Cleaner Production, 2017, 161, 792-802.	9.3	21
13	Effects of Different Raw Materials in the Synthesis of Boehmite andÎ³- andÎ±-Alumina. Journal of Chemistry, 2016, 2016, 1-6.	1.9	10
14	One-step synthesis of NaP1, SOD and ANA from a hazardous aluminum solid waste. Microporous and Mesoporous Materials, 2016, 226, 267-277.	4.4	64
15	Characterization of the Aluminas Formed During the Thermal Decomposition of Boehmite by the Rietveld Refinement Method. International Journal of Applied Ceramic Technology, 2015, 12, E178.	2.1	22
16	Synthesis and characterisation of hydrotalcites produced by an aluminium hazardous waste: A comparison between the use of ammonia and the use of triethanolamine. Applied Clay Science, 2015, 115, 115-123.	5.2	33
17	Production of added-value materials from a hazardous waste in the aluminium tertiary industry: Synergistic effect between hydrotalcites and glasses. Journal of Environmental Chemical Engineering, 2015, 3, 2552-2559.	6.7	11
18	Selection of high temperature materials for concentrated solar power systems: Property maps and experiments. Solar Energy, 2015, 112, 246-258.	6.1	29

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19	Characterization of Solid Wastes from Aluminum Tertiary Sector: The Current State of Spanish Industry. Journal of Minerals and Materials Characterization and Engineering, 2015, 03, 55-64.	0.4	17
20	The Application of Thermal Solar Energy to High Temperature Processes: Case Study of the Synthesis of Alumina from Boehmite. Scientific World Journal, The, 2014, 2014, 1-7.	2.1	11
21	Hydrotalcite-like compounds: A way to recover a hazardous waste in the aluminium tertiary industry. Applied Clay Science, 2014, 95, 41-49.	5.2	32
22	Industrial aluminum hazardous waste as a new raw material for zeolite synthesis. WIT Transactions on Ecology and the Environment, 2014, , .	0.0	5
23	Dehydration of Gypsum Rock by Solar Energy: Preliminary Study. Geomaterials, 2014, 04, 82-91.	0.6	17
24	Membrane-based extraction with strip/organic dispersion methodologies for metals removal and recovery from wastewaters. Desalination and Water Treatment, 2012, 40, 282-297.	1.0	12
25	Concerns on liquid mercury and mercury-containing wastes: A review of the treatment technologies for the safe storage. Journal of Environmental Management, 2012, 101, 197-205.	7.8	51
26	A microencapsulation process of liquid mercury by sulfur polymer stabilization/solidification technology. Part I: Characterization of materials. Revista De Metalurgia, 2012, 48, 45-57.	0.5	11
27	Pseudo-emulsion based hollow fiber with strip dispersion pertraction of iron(III) using (PJMTH+)2(SO42â˜) ionic liquid as carrier. Chemical Engineering Journal, 2010, 157, 366-372.	12.7	54
28	Formation of metacinnabar by milling of liquid mercury and elemental sulfur for long term mercury storage. Science of the Total Environment, 2010, 408, 4341-4345.	8.0	28
29	Dispersion-Free Solvent Extraction of Cr(VI) from Acidic Solutions Using Hollow Fiber Contactor. Environmental Science & Technology, 2009, 43, 7718-7722.	10.0	25
30	Influence of Different Metal Matrices on Manganese Signal Response in Laser Ablation Inductively Coupled Plasmaâ€"Mass Spectrometry. Applied Spectroscopy, 2009, 63, 859-864.	2.2	3
31	Synthetic Samples Preparation to Identify Al2O3 Particles in Steel by Laser Ablation ICP Mass Spectrometry. ISIJ International, 2008, 48, 194-199.	1.4	2
32	Study of heterogeneities in steels and determination of soluble and total aluminium and titanium concentration by laser ablation inductively coupled plasma mass spectrometry. Talanta, 2007, 71, 2108-2120.	5.5	24
33	Evaluation of different sample introduction approaches for the determination of boron in unalloyed steels by inductively coupled plasma mass spectrometry. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2005, 60, 73-79.	2.9	18
34	Depth profile analysis of copper coating on steel using laser ablation inductively coupled plasma mass spectrometry. Journal of Analytical Atomic Spectrometry, 2005, 20, 612.	3.0	18
35	Determination of minor elements in steelmaking flue dusts using laser ablation inductively coupled plasma mass spectrometry. Talanta, 2005, 67, 136-143.	5.5	20
36	Comparison of Laser Ablation and Dried Solution Aerosol as Sampling Systems in Inductively Coupled Plasma Mass Spectrometry. Applied Spectroscopy, 2004, 58, 1481-1487.	2.2	15

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37	Extraction of vanadium(V) from sulfate solutions by ACORGA M5640. Journal of Chemical Technology and Biotechnology, 2003, 78, 529-533.	3.2	5
38	On-line ion-exchange matrix separation and inductively coupled plasma mass spectrometric determination of trace impurities in high-purity aluminium. Journal of Analytical Atomic Spectrometry, 2002, 17, 502-506.	3.0	5
39	X-ray fluorescence determination of major and minor elements in ferrotitanium, ferroniobium and ferrovanadium from compressed pellets and fusion beads. X-Ray Spectrometry, 2002, 31, 424-431.	1.4	5
40	The removal of toxic metals from liquid effluents by ion exchange resins. Part I: Chromium(VI)/Sulphate/Dowex 1x8. Revista De Metalurgia, 2002, 38, 306-311.	0.5	17
41	Phosphine oxide mediate transport: modelling of mass transfer in supported liquid membrane transport of gold (III) using Cyanex 923. Chemical Engineering Science, 2001, 56, 3115-3122.	3.8	26
42	Slurry sampling electrothermal vaporization inductively coupled plasma mass spectrometry for steelmaking flue dust analysis. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2000, 55, 185-196.	2.9	22
43	Spark Ablation Inductively Coupled Plasma Mass Spectrometry Applied to the Semi-Quantitative Panoramic Analysis of Ferroalloys. Applied Spectroscopy, 2000, 54, 1032-1039.	2.2	7
44	Speciation of chromium in steelmaking solid wastes by selective retention on ion-exchange media and determination by isotope dilution inductively coupled plasma mass spectrometry. Journal of Analytical Atomic Spectrometry, 2000, 15, 1564-1568.	3.0	33
45	A micro-scale mercury cathode electrolysis procedure for on-line flow injection inductively coupled plasma mass spectrometry trace elements analysis in steel samples. Analytica Chimica Acta, 1999, 389, 247-255.	5.4	18
46	Evaluation of a Desolvating Microconcentric Nebulizer in Inductively Coupled Plasma Mass Spectrometry to Improve the Determination of Arsenic in Steels. Applied Spectroscopy, 1999, 53, 974-978.	2.2	9
47	Spark ablation inductively coupled plasma mass spectrometry analysis of minor and trace elements in low and high alloy steels using single calibration curves. Journal of Analytical Atomic Spectrometry, 1999, 14, 1155-1162.	3.0	15
48	Study of the parameters in microwave dissolution methods using a magnetic stirring device in the microwave unit. Application to dissolution of high-carbon ferrochromium. Analyst, The, 1998, 123, 1209-1214.	3.5	3
49	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. Journal of Analytical Atomic Spectrometry, 1998, 13, 1193-1197.	3.0	22
50	Determination of Phosphorus Content in Steels Using Flow Injection into an Argon-Water Carrier for Inductively Coupled Plasma-Mass Spectrometry.. ISIJ International, 1997, 37, 878-884.	1.4	3
51	Preconcentration and matrix separation of precious metals in geological and related materials using metalfix-chelamine resin prior to inductively coupled plasma mass spectrometry. Analytica Chimica Acta, 1997, 340, 31-40.	5.4	56
52	Preconcentration and analysis of gold from cyanide solutions with the use of a microcolumn packed with the phosphine oxide Cyanex 921. Talanta, 1996, 43, 313-318.	5.5	7
53	Study of the application of air-water flow injection inductively coupled plasma mass spectrometry for the determination of calcium in steels. Journal of Analytical Atomic Spectrometry, 1996, 11, 1037.	3.0	9
54	Membrane-based extraction with strip/organic dispersion methodologies for metals removal and recovery from wastewaters. , 0, 40, 282-297.		1

#	Article	IF	Citations
55	Single and competitive adsorptive removal of lead, cadmium, and mercury using zeolite adsorbent prepared from industrial aluminum waste. , 0, 126, 181-195.		11