

Natalia Moreno Palmerola

List of Publications by Year in descending order

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90
papers

4,266
citations

117625

34
h-index

114465

63
g-index

91
all docs

91
docs citations

91
times ranked

4458
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis of zeolites from coal fly ash: an overview. <i>International Journal of Coal Geology</i> , 2002, 50, 413-423.	5.0	707
2	Environmental, physical and structural characterisation of geopolymer matrixes synthesised from coal (co-)combustion fly ashes. <i>Journal of Hazardous Materials</i> , 2008, 154, 175-183.	12.4	375
3	Physico-chemical characteristics of European pulverized coal combustion fly ashes. <i>Fuel</i> , 2005, 84, 1351-1363.	6.4	247
4	Health effects from Sahara dust episodes in Europe: Literature review and research gaps. <i>Environment International</i> , 2012, 47, 107-114.	10.0	194
5	Utilization of Zeolites Synthesized from Coal Fly Ash for the Purification of Acid Mine Waters. <i>Environmental Science & Technology</i> , 2001, 35, 3526-3534.	10.0	179
6	Immobilization of heavy metals in polluted soils by the addition of zeolitic material synthesized from coal fly ash. <i>Chemosphere</i> , 2006, 62, 171-180.	8.2	170
7	Tracing surface and airborne SARS-CoV-2 RNA inside public buses and subway trains. <i>Environment International</i> , 2021, 147, 106326.	10.0	119
8	Environmental geochemistry of the feed coals and their combustion by-products from two coal-fired power plants in Xinjiang Province, Northwest China. <i>Fuel</i> , 2012, 95, 446-456.	6.4	101
9	Fly ash from a Mexican mineral coal I: Mineralogical and chemical characterization. <i>Journal of Hazardous Materials</i> , 2010, 181, 82-90.	12.4	83
10	Application of zeolitic material synthesised from fly ash to the decontamination of waste water and flue gas. <i>Journal of Chemical Technology and Biotechnology</i> , 2002, 77, 292-298.	3.2	82
11	Fate and abatement of mercury and other trace elements in a coal fluidised bed oxy combustion pilot plant. <i>Fuel</i> , 2012, 95, 272-281.	6.4	80
12	Fly ashes from coal and petroleum coke combustion: current and innovative potential applications. <i>Waste Management and Research</i> , 2009, 27, 976-987.	3.9	72
13	High quality of Jurassic Coals in the Southern and Eastern Junggar Coalfields, Xinjiang, NW China: Geochemical and mineralogical characteristics. <i>International Journal of Coal Geology</i> , 2012, 99, 1-15.	5.0	68
14	Fly ash as reactive sorbent for phosphate removal from treated waste water as a potential slow release fertilizer. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 160-169.	6.7	66
15	Potential utilization of FGD gypsum and fly ash from a Chinese power plant for manufacturing fire-resistant panels. <i>Construction and Building Materials</i> , 2015, 95, 910-921.	7.2	64
16	Synthesis of merlinoite from Chinese coal fly ashes and its potential utilization as slow release K-fertilizer. <i>Journal of Hazardous Materials</i> , 2014, 265, 242-252.	12.4	59
17	Pure zeolite synthesis from silica extracted from coal fly ashes. <i>Journal of Chemical Technology and Biotechnology</i> , 2002, 77, 274-279.	3.2	58
18	Influence of the co-firing on the leaching of trace pollutants from coal fly ash. <i>Fuel</i> , 2008, 87, 1958-1966.	6.4	58

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19	X-ray powder diffraction-based method for the determination of the glass content and mineralogy of coal (co)-combustion fly ashes. <i>Fuel</i> , 2010, 89, 2971-2976.	6.4	56
20	A review on the applications of coal combustion products in China. <i>International Geology Review</i> , 2018, 60, 671-716.	2.1	56
21	Mineral composition and geochemical characteristics of the Li-Ga-rich coals in the Buertaohai-Tianjiashipan mining district, Jungar Coalfield, Inner Mongolia. <i>International Journal of Coal Geology</i> , 2016, 167, 157-175.	5.0	55
22	Powdered Ca-activated zeolite for phosphate removal from treated wastewater. <i>Journal of Chemical Technology and Biotechnology</i> , 2016, 91, 1962-1971.	3.2	53
23	Mineralogy, geochemistry and toxicity of size-segregated respirable deposited dust in underground coal mines. <i>Journal of Hazardous Materials</i> , 2020, 399, 122935.	12.4	52
24	Contribution of harbour activities to levels of particulate matter in a harbour area: Hada Project-Tarragona Spain. <i>Atmospheric Environment</i> , 2007, 41, 6366-6378.	4.1	51
25	Mineralogy and geochemistry of the coals from the Chongqing and Southeast Hubei coal mining districts, South China. <i>International Journal of Coal Geology</i> , 2007, 71, 263-275.	5.0	49
26	Quantitative Rietveld analysis of the crystalline and amorphous phases in coal fly ashes. <i>Fuel</i> , 2013, 105, 314-317.	6.4	49
27	Enrichment and distribution of elements in the Late Permian coals from the Zhina Coalfield, Guizhou Province, Southwest China. <i>International Journal of Coal Geology</i> , 2017, 171, 111-129.	5.0	48
28	Comprehensive evaluation of potential coal mine dust emissions in an open-pit coal mine in Northwest China. <i>International Journal of Coal Geology</i> , 2021, 235, 103677.	5.0	40
29	Differential behaviour of combustion and gasification fly ash from Puertollano Power Plants (Spain) for the synthesis of zeolites and silica extraction. <i>Journal of Hazardous Materials</i> , 2009, 166, 94-102.	12.4	39
30	Partitioning of elements in a entrained flow IGCC plant: Influence of selected operational conditions. <i>Fuel</i> , 2010, 89, 3250-3261.	6.4	38
31	Characterisation of the glass fraction of a selection of European coal fly ashes. <i>Journal of Chemical Technology and Biotechnology</i> , 2004, 79, 540-546.	3.2	37
32	Simultaneous ammonium and phosphate recovery and stabilization from urban sewage sludge anaerobic digestates using reactive sorbents. <i>Science of the Total Environment</i> , 2018, 630, 781-789.	8.0	37
33	Utilization of coal fly ash from a Chinese power plant for manufacturing highly insulating foam glass: Implications of physical, mechanical properties and environmental features. <i>Construction and Building Materials</i> , 2018, 175, 64-76.	7.2	36
34	Insight into PM _{2.5} sources by applying positive matrix factorization (PMF) at urban and rural sites of Beijing. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 14703-14724.	4.9	35
35	Potential Environmental Applications of Pure Zeolitic Material Synthesized from Fly Ash. <i>Journal of Environmental Engineering, ASCE</i> , 2001, 127, 994-1002.	1.4	34
36	Ultrafine and nanoparticle formation and emission mechanisms during laser processing of ceramic materials. <i>Journal of Aerosol Science</i> , 2015, 88, 48-57.	3.8	34

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37	Environmental impact and potential use of coal fly ash and sub-economical quarry fine aggregates in concrete. <i>Journal of Hazardous Materials</i> , 2018, 344, 1043-1056.	12.4	34
38	Phosphate recovery from aqueous solution by K-zeolite synthesized from fly ash for subsequent valorisation as slow release fertilizer. <i>Science of the Total Environment</i> , 2020, 731, 139002.	8.0	34
39	Geological controls on the distribution of REY-Zr (Hf)-Nb (Ta) enrichment horizons in late Permian coals from the Qiandongbei Coalfield, Guizhou Province, SW China. <i>International Journal of Coal Geology</i> , 2020, 231, 103604.	5.0	33
40	Biochar Derived from Agricultural and Forestry Residual Biomass: Characterization and Potential Application for Enzymes Immobilization. <i>Journal of Biobased Materials and Bioenergy</i> , 2013, 7, 724-732.	0.3	31
41	Application of zeolitised coal fly ashes to the depuration of liquid wastes. <i>Fuel</i> , 2005, 84, 1440-1446.	6.4	27
42	Influence of a Modification of the Petcoke/Coal Ratio on the Leachability of Fly Ash and Slag Produced from a Large PCC Power Plant. <i>Environmental Science & Technology</i> , 2007, 41, 5330-5335.	10.0	26
43	Characterisation of dust material emitted during harbour operations (HADA Project). <i>Atmospheric Environment</i> , 2007, 41, 6331-6343.	4.1	25
44	Geological controls on mineralogy and geochemistry of the Late Permian coals in the Liulong Mine of the Liuzhi Coalfield, Guizhou Province, Southwest China. <i>International Journal of Coal Geology</i> , 2016, 154-155, 1-15.	5.0	22
45	Study of a Chilean petroleum coke fluidized bed combustion fly ash and its potential application in copper, lead and hexavalent chromium removal. <i>Fuel</i> , 2010, 89, 3012-3021.	6.4	21
46	Copper Flash Smelting Flue Dust as a Source of Germanium. <i>Waste and Biomass Valorization</i> , 2017, 8, 2121-2129.	3.4	21
47	Determination of direct and fugitive PM emissions in a Mediterranean harbour by means of classic and novel tracer methods. <i>Journal of Environmental Management</i> , 2009, 91, 133-141.	7.8	20
48	Physical and chemical changes in coal fly ash during acidic or neutral wastes treatment, and its effect on the fixation process. <i>Fuel</i> , 2016, 184, 69-80.	6.4	20
49	Recovery of nutrients (N-P-K) from potassium-rich sludge anaerobic digestion side-streams by integration of a hybrid sorption-membrane ultrafiltration process: Use of powder reactive sorbents as nutrient carriers. <i>Science of the Total Environment</i> , 2017, 599-600, 422-430.	8.0	20
50	The mode of occurrence and origin of minerals in the Early Permian high-rank coals of the Jimunai depression, Xinjiang Uygur Autonomous Region, NW China. <i>International Journal of Coal Geology</i> , 2019, 205, 58-74.	5.0	20
51	Zeolitic material synthesised from fly ash: use as cationic exchanger. <i>Journal of Chemical Technology and Biotechnology</i> , 2002, 77, 299-304.	3.2	18
52	Development of a non-conventional sorbent from fly ash and its potential use in acid wastewater neutralization and heavy metal removal. <i>Chemical Engineering Journal</i> , 2011, 166, 896-905.	12.7	18
53	Geological controls on enrichment of Mn, Nb (Ta), Zr (Hf), and REY within the Early Permian coals of the Jimunai Depression, Xinjiang Province, NW China. <i>International Journal of Coal Geology</i> , 2019, 215, 103298.	5.0	17
54	How can ventilation be improved on public transportation buses? Insights from CO2 measurements. <i>Environmental Research</i> , 2022, 205, 112451.	7.5	17

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55	Determining suitability of a fly ash for silica extraction and zeolite synthesis. <i>Journal of Chemical Technology and Biotechnology</i> , 2004, 79, 1009-1018.	3.2	16
56	Influence of an aluminium additive in aqueous and solid speciation of elements in flue gas desulphurisation (FGD) system. <i>Energy</i> , 2013, 50, 438-444.	8.8	15
57	CO ₂ carbonation under aqueous conditions using petroleum coke combustion fly ash. <i>Chemosphere</i> , 2014, 117, 139-143.	8.2	14
58	Potential of hazardous waste encapsulation in concrete with coal fly ash and bivalve shells. <i>Journal of Cleaner Production</i> , 2018, 185, 870-881.	9.3	14
59	Estimates of atmospheric particle emissions from bulk handling of dusty materials in Spanish Harbours. <i>Atmospheric Environment</i> , 2007, 41, 6356-6365.	4.1	13
60	Levels of outdoor PM _{2.5} , absorbance and sulphur as surrogates for personal exposures among post-myocardial infarction patients in Barcelona, Spain. <i>Atmospheric Environment</i> , 2007, 41, 1539-1549.	4.1	12
61	Integration of Powdered Ca-Activated Zeolites in a Hybrid Sorption-Membrane Ultrafiltration Process for Phosphate Recovery. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 6204-6212.	3.7	12
62	Measurement of particulate concentrations produced during bulk material handling at the Tarragona harbor. <i>Atmospheric Environment</i> , 2007, 41, 6344-6355.	4.1	11
63	The geochemical evolution of brines from phosphogypsum deposits in Huelva (SW Spain) and its environmental implications. <i>Science of the Total Environment</i> , 2020, 700, 134444.	8.0	11
64	Mineralogical and geochemical variations from coal to deposited dust and toxicity of size-segregated respirable dust in a blasting mining underground coal mine in Hunan Province, South China. <i>International Journal of Coal Geology</i> , 2021, 248, 103863.	5.0	11
65	Characterization of deposited dust and its respirable fractions in underground coal mines: Implications for oxidative potential-driving species and source apportionment. <i>International Journal of Coal Geology</i> , 2022, 258, 104017.	5.0	11
66	Modelling of the glass phase in fly ashes using network connectivity theory. <i>Journal of Chemical Technology and Biotechnology</i> , 2002, 77, 240-245.	3.2	10
67	Snow Impurities in the Central Pyrenees: From Their Geochemical and Mineralogical Composition towards Their Impacts on Snow Albedo. <i>Atmosphere</i> , 2020, 11, 937.	2.3	10
68	Metal Adsorption on Clays from Pyrite Contaminated Soil. <i>Journal of Environmental Engineering, ASCE</i> , 2005, 131, 1052-1056.	1.4	9
69	Production of environmentally friendly sand-like products from granitoid waste sludge and coal fly ash for civil engineering. <i>Journal of Cleaner Production</i> , 2019, 238, 117880.	9.3	9
70	Geochemistry and oxidative potential of the respirable fraction of powdered mined Chinese coals. <i>Science of the Total Environment</i> , 2021, 800, 149486.	8.0	9
71	Chemistry and sources of PM _{2.5} and volatile organic compounds breathed inside urban commuting and tourist buses. <i>Atmospheric Environment</i> , 2020, 223, 117234.	4.1	8
72	Mineralogy and Geochemistry of Late Permian Coals within the Tongzi Coalfield in Guizhou Province, Southwest China. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 44.	2.0	8

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73	Fixation of treated phosphate waste and its use in concrete. <i>Journal of Cleaner Production</i> , 2018, 178, 89-97.	9.3	6
74	Mineralogical, chemical and leaching characteristics of ashes from residential biomass combustion. <i>Environmental Science and Pollution Research</i> , 2019, 26, 22688-22703.	5.3	6
75	Understanding the impact of FGD technologies on the emissions of key pollutants in a Co-Firing power plant. <i>Journal of the Energy Institute</i> , 2020, 93, 518-532.	5.3	6
76	Geological Controls on Enrichment of Rare Earth Elements and Yttrium (REY) in Late Permian Coals and Non-Coal Rocks in the Xianan Coalfield, Guangxi Province. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 301.	2.0	5
77	Characterizing the Chemical Profile of Incidental Ultrafine Particles for Toxicity Assessment Using an Aerosol Concentrator. <i>Annals of Work Exposures and Health</i> , 2021, 65, 966-978.	1.4	5
78	Mineralogical and Environmental Geochemistry of Coal Combustion Products from Shenhua and Yihua Power Plants in Xinjiang Autonomous Region, Northwest China. <i>Minerals (Basel, Switzerland)</i> , 2019, 9, 496.	2.0	4
79	Enrichment of Nb-Ta-Zr-W-Li in the Late Carboniferous Coals from the Weibei Coalfield, Shaanxi, North China. <i>Energies</i> , 2020, 13, 4818.	3.1	4
80	Enrichment of Li-Ga-Zr-Hf and Se-Mo-Cr-V-As-Pb Assemblages in the No. 11 Superhigh Organic Sulfur Coal from the Sangshuping Coal Mine, Weibei Coalfield, Shaanxi, North China. <i>Energies</i> , 2020, 13, 6660.	3.1	4
81	Significant enrichment of Rb and Cs in the Late Triassic coals from the Coc Sau surface mine, Cam Pha Coalfield, Quang Ninh Province, Vietnam. <i>Ore Geology Reviews</i> , 2022, 142, 104700.	2.7	4
82	Workplace Exposure to Process-Generated Ultrafine and Nanoparticles in Ceramic Processes Using Laser Technology. <i>Handbook of Environmental Chemistry</i> , 2015, , 159-179.	0.4	3
83	Geological Controls on Mineralogy and Geochemistry of the Permian and Jurassic Coals in the Shanbei Coalfield, Shaanxi Province, North China. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 138.	2.0	3
84	Fly Ash Utilization for the Development of Low NOx Bed Materials. <i>Open Fuels and Energy Science Journal</i> , 2009, 2, 27-30.	0.2	3
85	Bioaerosols in public and tourist buses. <i>Aerobiologia</i> , 2021, 37, 525-541.	1.7	2
86	Utilization of Boiler Slag from Pulverized-Coal-Combustion Power Plants in China for Manufacturing Acoustic Materials. <i>Energies</i> , 2020, 13, 5705.	3.1	1
87	Geological Controls on Geochemical Anomaly of the Carbonaceous Mudstones in Xianan Coalfield, Guangxi Province, China. <i>Energies</i> , 2022, 15, 5196.	3.1	1
88	MEASUREMENT OF PARTICULATE MATTER EMITTED DURING BULK HANDLING ACTIVITIES IN A HARBOUR AREA IN SPAIN. <i>Journal of Aerosol Science</i> , 2004, 35, S1001-S1002.	3.8	0
89	Novel Products and Applications with Combustion Residues. , 0, , 199-378.		0
90	New Data and Evidence on the Mineralogy and Geochemistry of Wulantuga High-Ge Coal Deposit of Shengli Coalfield, Inner Mongolia, China. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 17.	2.0	0