

# Rachid Hakkou

## List of Publications by Year in descending order

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96  
papers

2,443  
citations

186265

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233421

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docs citations

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Towards an integrated approach for zero coal mine waste storage: solutions based on materials circularity and sustainable resource governance. <i>Mineral Processing and Extractive Metallurgy Review</i> , 2023, 44, 375-388.	5.0	5
2	Recycling of marls from phosphate by-products to produce alkali-activated geopolymers. <i>Materials Today: Proceedings</i> , 2022, 51, 1931-1936.	1.8	8
3	Evaluation of the Long-Term Contaminated Neutral Drainage CND Generation Potential of Waste Rock Piles at the Abandoned Zn-Pb Erdouz Mine (Occidental High Atlas, Morocco). <i>Mining, Metallurgy and Exploration</i> , 2022, 39, 643-654.	0.8	3
4	Assessment of the Transfer of Trace Metals to Spontaneous Plants on Abandoned Pyrrhotite Mine: Potential Application for Phytostabilization of Phosphate Wastes. <i>Plants</i> , 2022, 11, 179.	3.5	6
5	The clayey quarry sludge from a waste to a valuable raw material for red ceramics. <i>Journal of Material Cycles and Waste Management</i> , 2022, 24, 1047-1058.	3.0	6
6	Assessment of the selective flotation of calcite, apatite and quartz using bio-based collectors: Flaxseed, nigella, and olive oils. <i>Minerals Engineering</i> , 2022, 182, 107589.	4.3	13
7	Fusion of phosphate by-products and glass waste for preparation of alkali-activated binders. <i>Composites Part B: Engineering</i> , 2022, 242, 110044.	12.0	5
8	Determination of the contact angles and pseudo-line tensions on heterogeneous surfaces with different size of bubbles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 611, 125772.	4.7	3
9	Use of clays by-products from phosphate mines for the manufacture of sustainable lightweight aggregates. <i>Journal of Cleaner Production</i> , 2021, 280, 124361.	9.3	29
10	An experimental investigation on collapsible behavior of dry compacted phosphate mine waste rock in road embankment. <i>Transportation Geotechnics</i> , 2021, 26, 100439.	4.5	9
11	Use of phosphate mine by-products as supplementary cementitious materials. <i>Materials Today: Proceedings</i> , 2021, 37, 3781-3788.	1.8	13
12	Valorization of phosphate mine waste rocks as aggregates for concrete. <i>Materials Today: Proceedings</i> , 2021, 37, 3840-3846.	1.8	10
13	Reuse of sewage sludge and waste glass in the production of lightweight aggregates. <i>Materials Today: Proceedings</i> , 2021, 37, 3866-3870.	1.8	12
14	Sustainable use of phosphate waste rocks: From characterization to potential applications. <i>Materials Chemistry and Physics</i> , 2021, 260, 124119.	4.0	16
15	Manufacturing of high-performance ceramics using clays by-product from phosphate mines. <i>Materials Today: Proceedings</i> , 2021, 37, 3994-4000.	1.8	6
16	Use of flint from phosphate mine waste rocks as an alternative aggregates for concrete. <i>Construction and Building Materials</i> , 2021, 271, 121886.	7.2	29
17	Recycling Way of Sludge in Handcraft Pottery (Marrakesh, Morocco). <i>Environmental Science and Engineering</i> , 2021, , 2265-2269.	0.2	1
18	Chemical Composition, Antioxidant, and Antibacterial Activities of Essential Oil of <i>Atriplex semibaccata</i> R.Br. Aerial Parts: First Assessment against Multidrug-Resistant Bacteria. <i>Agronomy</i> , 2021, 11, 362.	3.0	6

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19	Phytostabilization of Phosphate Mine Wastes Used as a Store-and-Release Cover to Control Acid Mine Drainage in a Semiarid Climate. <i>Plants</i> , 2021, 10, 900.	3.5	4
20	Effects of surface heterogeneities on wetting and contact line dynamics as observed with the captive bubble technique. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 615, 126041.	4.7	7
21	Formulation and characterization of hydroxyapatite-based composite with enhanced compressive strength and controlled antibiotic release. <i>Journal of Biomedical Materials Research - Part A</i> , 2021, 109, 1942-1954.	4.0	6
22	Layered aluminum tri-polyphosphate as intercalation host for 6-aminohexanoic acid – Synthesis, characterization and application as corrosion protection inhibitor for low carbon steel. <i>Corrosion Science</i> , 2021, 181, 109239.	6.6	7
23	Using Calcined Marls as Non-Common Supplementary Cementitious Materials – A Critical Review. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 517.	2.0	11
24	Lead Mobilization and Speciation in Mining Waste: Experiments and Modeling. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 107060.	2.0	10
25	Remediation scenario of the abandoned Kettara mine site (Morocco): acid mine drainage (AMD) transport modeling. <i>SN Applied Sciences</i> , 2021, 3, 1.	2.9	2
26	Description of Microbial Communities of Phosphate Mine Wastes in Morocco, a Semi-Arid Climate, Using High-Throughput Sequencing and Functional Prediction. <i>Frontiers in Microbiology</i> , 2021, 12, 666936.	3.5	7
27	Integrated valorization of silver mine tailings through silver recovery and ceramic materials production. <i>Minerals Engineering</i> , 2021, 170, 107060.	4.3	11
28	Floristic and ecological monitoring on a store-and-release cover in arid and semi-arid environment of Kettara mine, Morocco. <i>Acta Ecologica Sinica</i> , 2021, 41, 432-441.	1.9	2
29	Introduction of an innovative corrosion-protective alkyd steel coating based on a novel layered aluminum tripolyphosphate loaded with 6-amino hexanoic acid (ATP-6-AHA). <i>Progress in Organic Coatings</i> , 2021, 161, 106500.	3.9	2
30	Wild Plants for the Phytostabilization of Phosphate Mine Waste in Semi-Arid Environments: A Field Experiment. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 42.	2.0	17
31	Geopolymer Materials Based on Natural Pozzolans from the Moroccan Middle Atlas. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 1250.	2.0	9
32	Towards Zero Solid Waste in the Sedimentary Phosphate Industry: Challenges and Opportunities. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 1250.	2.0	21
33	Effect of 6-Aminohexanoic Acid Released from Its Aluminum Tri-Polyphosphate Intercalate (ATP-6-AHA) on the Corrosion Protection Mechanism of Steel in 3.5% Sodium Chloride Solution. <i>Corrosion and Materials Degradation</i> , 2021, 2, 666-677.	2.4	3
34	Sustainable Reuse of Coal Mine Waste: Experimental and Economic Assessments for Embankments and Pavement Layer Applications in Morocco. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 851.	2.0	25
35	Mine wastes based geopolymers: A critical review. <i>Cleaner Engineering and Technology</i> , 2020, 1, 100014.	4.0	48
36	Occurrence of Sesquioxide in a Mid-Low Grade Collophane-Sedimentary Apatite Ore from Guizhou, China. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 1038.	2.0	6

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37	Review of the Main Factors Affecting the Flotation of Phosphate Ores. Minerals (Basel, Switzerland), 2020, 10, 1109.	2.0	34
38	Guidelines for a phytomanagement plan by the phytostabilization of mining wastes. Scientific African, 2020, 10, e00654.	1.5	20
39	Thermo-physical characterization of a metakaolin-based geopolymer incorporating calcium carbonate: A case study. Materials Chemistry and Physics, 2020, 252, 123266.	4.0	19
40	Feasibility of using phosphate wastes for enhancing high-temperature rheological characteristics of asphalt binder. Journal of Material Cycles and Waste Management, 2020, 22, 1407-1417.	3.0	16
41	Phosphogypsum recycling: New horizons for a more sustainable road material application. Journal of Building Engineering, 2020, 30, 101267.	3.4	59
42	Elaboration of geopolymers based on clays by-products from phosphate mines for construction applications. Journal of Cleaner Production, 2020, 261, 121317.	9.3	51
43	Elaboration of alkali activated materials using a non-calcined red clay from phosphate mines amended with fly ash or slag: A structural study. Materials Chemistry and Physics, 2020, 256, 123678.	4.0	17
44	Desulfurization of the Old Tailings at the Au-Ag-Cu Tiouit Mine (Anti-Atlas Morocco). Minerals (Basel,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 28	2.0	28
45	Phosphate Mine Tailing Recycling in Membrane Filter Manufacturing: Microstructure and Filtration Suitability. Minerals (Basel, Switzerland), 2019, 9, 318.	2.0	25
46	Valorization of Phosphate Mine Waste Rocks as Materials for Road Construction. Minerals (Basel,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.0	43
47	Environmental characterization of mine waste at the Pb-Zn Sidi Kamber abandoned mine (NE Algeria). Rendiconti Lincei, 2019, 30, 427-441.	2.2	9
48	Valorization of clay by-product from moroccan phosphate mines for the production of fired bricks. Journal of Cleaner Production, 2019, 229, 169-179.	9.3	62
49	Alkaline fused phosphate mine tailings for geopolymer mortar synthesis: Thermal stability, mechanical and microstructural properties. Journal of Non-Crystalline Solids, 2019, 511, 76-85.	3.1	94
50	Pb-Zn mine tailings reprocessing using centrifugal dense media separation. Minerals Engineering, 2019, 131, 28-37.	4.3	17
51	Recycling of phosphate mine tailings for the production of geopolymers. Journal of Cleaner Production, 2018, 185, 891-903.	9.3	115
52	Leaching and geochemical behavior of fired bricks containing coal wastes. Journal of Environmental Management, 2018, 209, 227-235.	7.8	32
53	Clayey Quarry Sludges: Thermal Transformation, Microstructure and Technological Properties. Waste and Biomass Valorization, 2018, 9, 1805-1815.	3.4	4
54	Recovery of Residual Silver-Bearing Minerals from Low-Grade Tailings by Froth Flotation: The Case of Zgounder Mine, Morocco. Minerals (Basel, Switzerland), 2018, 8, 273.	2.0	10

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55	The design and study of new Li-ion full cells of LiCo <sub>2</sub> /3Ni <sub>1</sub> /6Mn <sub>1</sub> /6O <sub>2</sub> positive electrode paired with MnSn <sub>2</sub> and Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> negative electrodes. <i>Solid State Ionics</i> , 2017, 300, 175-181.	2.7	13
56	In-depth characterization of bacterial and archaeal communities present in the abandoned Kettara pyrrhotite mine tailings (Morocco). <i>Extremophiles</i> , 2017, 21, 671-685.	2.3	29
57	Phosphate sludge-based ceramics: Microstructure and effects of processing factors. <i>Journal of Building Engineering</i> , 2017, 11, 48-55.	3.4	12
58	Hydrogeological behaviour of an inclined store-and-release cover experimental cell made with phosphate mine wastes. <i>Canadian Geotechnical Journal</i> , 2017, 54, 102-116.	2.8	19
59	Recycling Feasibility of Glass Wastes and Calamine Processing Tailings in Fired Bricks Making. <i>Waste and Biomass Valorization</i> , 2017, 8, 1479-1489.	3.4	28
60	Coal mine wastes recycling for coal recovery and eco-friendly bricks production. <i>Minerals Engineering</i> , 2017, 107, 123-138.	4.3	104
61	Control of acid mine drainage from an abandoned mine in Morocco by using cement kiln dust and fly ash as amendments. <i>Journal of Materials and Environmental Science</i> , 2017, 8, 4457-4466.	0.5	1
62	Natural clay substitution by calamine processing wastes to manufacture fired bricks. <i>Journal of Cleaner Production</i> , 2016, 135, 847-858.	9.3	67
63	Column Kinetic Tests Assessing Geochemical Behavior of Mine Wastes in the Jerada Coal District (Morocco). <i>Mine Water and the Environment</i> , 2016, 35, 497-507.	2.0	2
64	Assessment of Trace Elements in Soils and Mine Water Surrounding a Closed Manganese Mine (Anti Tj ETQq0 0 0 rgBT /Overlock 10 Tf	2.0	3
65	Heated blends of phosphate waste: Microstructure characterization, effects of processing factors and use as a phosphorus source for alfalfa growth. <i>Journal of Environmental Management</i> , 2016, 177, 169-176.	7.8	17
66	Manufacturing of ceramic products using calamine hydrometallurgical processing wastes. <i>Journal of Cleaner Production</i> , 2016, 127, 500-510.	9.3	17
67	Geochemical behavior and environmental risks related to the use of abandoned base-metal tailings as construction material in the upper-Moulouya district, Morocco. <i>Environmental Science and Pollution Research</i> , 2016, 23, 598-611.	5.3	26
68	Valorization of Phosphate Waste Rocks and Sludge from the Moroccan Phosphate Mines: Challenges and Perspectives. <i>Procedia Engineering</i> , 2016, 138, 110-118.	1.2	111
69	Role of iron in Na <sub>1.5</sub> Fe <sub>0.5</sub> Ti <sub>1.5</sub> (PO <sub>4</sub> ) <sub>3</sub> /C as electrode material for Na-ion batteries studied by operando Mössbauer spectroscopy. <i>Hyperfine Interactions</i> , 2016, 237, 1.	0.5	6
70	Hydrogeological Behavior of a Store-and-Release Cover: A Comparison Between Field Column Tests and Numerical Predictions With or Without Hysteresis Effects. <i>Mine Water and the Environment</i> , 2016, 35, 221-234.	2.0	7
71	Heated blends of clay and phosphate sludge: Microstructure and physical properties. <i>Journal of Asian Ceramic Societies</i> , 2016, 4, 11-18.	2.3	14
72	Tailings Weathering and Arsenic Mobility at the Abandoned Zgounder Silver Mine, Morocco. <i>Mine Water and the Environment</i> , 2016, 35, 508-524.	2.0	14

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73	A comparative study on the practical use of low sulfide base-metal tailings as aggregates for rendering and masonry mortars. <i>Journal of Cleaner Production</i> , 2016, 112, 914-925.	9.3	47
74	Field experimental cells to assess hydrogeological behaviour of store-and-release covers made with phosphate mine waste. <i>Canadian Geotechnical Journal</i> , 2015, 52, 1255-1269.	2.8	27
75	Reuse of base-metal tailings as aggregates for rendering mortars: Assessment of immobilization performances and environmental behavior. <i>Construction and Building Materials</i> , 2015, 96, 296-306.	7.2	59
76	Mechanisms and Performances of Na <sub>1.5</sub> Fe <sub>0.5</sub> Ti <sub>1.5</sub> (PO <sub>4</sub> ) <sub>3</sub> /C Composite as Electrode Material for Na-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2015, 119, 25220-25234.	3.1	31
77	Cement hydration and durability of low sulfide tailings-based renders: A case study in Moroccan constructions. <i>Minerals Engineering</i> , 2015, 76, 97-108.	4.3	18
78	Hydrogeochemical behavior around the abandoned Kettara mine site, Morocco. <i>Journal of Geochemical Exploration</i> , 2014, 144, 456-467.	3.2	38
79	Phosphate Carbonated Wastes Used as Drains for Acidic Mine Drainage Passive Treatment. <i>Procedia Engineering</i> , 2014, 83, 407-414.	1.2	19
80	Heptanoic acid adsorption on grafted palygorskite and its application as controlled-release corrosion inhibitor of steel. <i>Materials Chemistry and Physics</i> , 2014, 148, 335-342.	4.0	23
81	GIS-based environmental database for assessing the mine pollution: A case study of an abandoned mine site in Morocco. <i>Journal of Geochemical Exploration</i> , 2014, 144, 468-477.	3.2	37
82	The Potential Use of Phosphatic Limestone Wastes in the Passive Treatment of AMD: A Laboratory Study. <i>Mine Water and the Environment</i> , 2013, 32, 266-277.	2.0	34
83	Phosphate sludge: Thermal transformation and use as lightweight aggregate material. <i>Journal of Environmental Management</i> , 2013, 130, 354-360.	7.8	68
84	Assessment of soil contamination around an abandoned mine in a semi-arid environment using geochemistry and geostatistics: Pre-work of geochemical process modeling with numerical models. <i>Journal of Geochemical Exploration</i> , 2013, 125, 117-129.	3.2	124
85	Assessment of Phosphate Limestone Wastes as a Component of a Store-and-Release Cover in a Semiarid Climate. <i>Mine Water and the Environment</i> , 2013, 32, 152-167.	2.0	41
86	Geochemical Behavior of Mine Tailings and Waste Rock at the Abandoned Cu-Mo Azegour Mine (Occidental High Atlas, Morocco). <i>Mine Water and the Environment</i> , 2013, 32, 121-132.	2.0	13
87	Impact of human activities on the physico-chemical quality of surface water and groundwater in the north of Marrakech (Morocco). <i>Environmental Technology (United Kingdom)</i> , 2012, 33, 2077-2088.	2.2	10
88	Etude géophysique et hydrogéologique du site minier abandonné de Kettara (région de Marrakech, Maroc). <i>ETQ</i> , 2012, 13, 1-13.	2.8	13
89	Electrical and Seismic Tomography Used to Image the Structure of a Tailings Pond at the Abandoned Kettara Mine, Morocco. <i>Mine Water and the Environment</i> , 2012, 31, 53-61.	2.0	32
90	On the LiCo <sub>2</sub> /3Ni <sub>1</sub> /6Mn <sub>1</sub> /6O <sub>2</sub> positive electrode material. <i>Electrochimica Acta</i> , 2011, 56, 4081-4086.	5.2	29

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91	Laboratory Evaluation of the Use of Alkaline Phosphate Wastes for the Control of Acidic Mine Drainage. <i>Mine Water and the Environment</i> , 2009, 28, 206.	2.0	59
92	Acid Mine Drainage at the Abandoned Kettara Mine (Morocco): 2. Mine Waste Geochemical Behavior. <i>Mine Water and the Environment</i> , 2008, 27, 160-170.	2.0	69
93	Acid Mine Drainage at the Abandoned Kettara Mine (Morocco): 1. Environmental Characterization. <i>Mine Water and the Environment</i> , 2008, 27, 145-159.	2.0	103
94	Acid and Oxidizing Leaching of Copper Refinery Anodic Slimes in Hexafluorosilicic Acid and Nitric Acid Media. <i>Separation Science and Technology</i> , 1996, 31, 569-577.	2.5	6
95	Silver Recycling from Photographic Bleach-Fix Baths by Ionic Flotation and Thermal Decomposition and Reuse of the Baths. <i>Separation Science and Technology</i> , 1995, 30, 2211-2221.	2.5	5
96	Thermal resistance of alkaline fused phosphate sludge-based geopolymer mortar. , 0, , .		0