

# Norman Toro

## List of Publications by Year in descending order

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78  
papers

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citations

430874

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h-index

580821

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g-index

80  
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80  
docs citations

80  
times ranked

368  
citing authors

#	ARTICLE	IF	CITATIONS
1	Seabed mineral resources, an alternative for the future of renewable energy: A critical review. <i>Ore Geology Reviews</i> , 2020, 126, 103699.	2.7	78
2	Manganese Nodules in Chile, an Alternative for the Production of Co and Mn in the Future—A Review. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 674.	2.0	40
3	Leaching of chalcopyrite ore agglomerated with high chloride concentration and high curing periods. <i>Hydrometallurgy</i> , 2018, 181, 215-220.	4.3	38
4	Understanding the flocculation mechanism of quartz and kaolinite with polyacrylamide in seawater: A molecular dynamics approach. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 608, 125576.	4.7	34
5	Leaching of chalcopyrite (CuFeS <sub>2</sub> ) with an imidazolium-based ionic liquid in the presence of chloride. <i>Minerals Engineering</i> , 2016, 99, 60-66.	4.3	31
6	Dissolution of pure chalcopyrite with manganese nodules and waste water. <i>Journal of Materials Research and Technology</i> , 2020, 9, 798-805.	5.8	29
7	Optimization of the Heap Leaching Process through Changes in Modes of Operation and Discrete Event Simulation. <i>Minerals (Basel, Switzerland)</i> , 2019, 9, 421.	2.0	27
8	Initial Investigation into the Leaching of Manganese from Nodules at Room Temperature with the Use of Sulfuric Acid and the Addition of Foundry Slag—Part I. <i>Minerals (Basel, Switzerland)</i> , 2018, 8, 565.	2.0	25
9	Leaching of Pure Chalcocite in a Chloride Media Using Sea Water and Waste Water. <i>Metals</i> , 2019, 9, 780.	2.3	24
10	Leaching manganese nodules with iron-reducing agents — A critical review. <i>Minerals Engineering</i> , 2021, 163, 106748.	4.3	24
11	Leaching of Manganese from Marine Nodules at Room Temperature with the Use of Sulfuric Acid and the Addition of Tailings. <i>Minerals (Basel, Switzerland)</i> , 2019, 9, 289.	2.0	23
12	Environmental, economic and technological factors affecting Chilean copper smelters — A critical review. <i>Journal of Materials Research and Technology</i> , 2021, 15, 213-225.	5.8	23
13	Optimization of Parameters for the Dissolution of Mn from Manganese Nodules with the Use of Tailings in An Acid Medium. <i>Minerals (Basel, Switzerland)</i> , 2019, 9, 387.	2.0	22
14	Applying Statistical Analysis and Machine Learning for Modeling the UCS from P-Wave Velocity, Density and Porosity on Dry Travertine. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4565.	2.5	21
15	Leaching Manganese Nodules in an Acid Medium and Room Temperature Comparing the Use of Different Fe Reducing Agents. <i>Metals</i> , 2019, 9, 1316.	2.3	20
16	Leaching Chalcopyrite with an Imidazolium-Based Ionic Liquid and Bromide. <i>Metals</i> , 2020, 10, 183.	2.3	20
17	Extraction of Mn from Black Copper Using Iron Oxides from Tailings and Fe <sup>2+</sup> as Reducing Agents in Acid Medium. <i>Metals</i> , 2019, 9, 1112.	2.3	19
18	A Stochastic Model Approach for Copper Heap Leaching through Bayesian Networks. <i>Metals</i> , 2019, 9, 1198.	2.3	18

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19	Novel treatment for mixed copper ores: Leaching ammonia " Precipitation " Flotation (L.A.P.F.). Minerals Engineering, 2020, 149, 106242.	4.3	18
20	Leaching Chalcopyrite with High MnO <sub>2</sub> and Chloride Concentrations. Metals, 2020, 10, 107.	2.3	18
21	Statistical Study for Leaching of Covellite in a Chloride Media. Metals, 2020, 10, 477.	2.3	18
22	Use of Seawater/Brine and Caliche's Salts as Clean and Environmentally Friendly Sources of Chloride and Nitrate Ions for Chalcopyrite Concentrate Leaching. Minerals (Basel, Switzerland), 2020, 10, 477.	2.0	17
23	Enhancing the sedimentation of clay-based tailings in seawater by magnesium removal treatment. Separation and Purification Technology, 2020, 242, 116762.	7.9	17
24	Depression of Pyrite in Seawater Flotation by Guar Gum. Metals, 2020, 10, 239.	2.3	17
25	Copper Tailing Flocculation in Seawater: Relating the Yield Stress with Fractal Aggregates at Varied Mixing Conditions. Metals, 2019, 9, 1295.	2.3	16
26	Quantitative Methods to Support Data Acquisition Modernization within Copper Smelters. Processes, 2020, 8, 1478.	2.8	16
27	Leaching of White Metal in a NaCl-H <sub>2</sub> SO <sub>4</sub> System under Environmental Conditions. Minerals (Basel, Tj ETQq1 1 0.784314 rgBT /Over 2.0 5.14	2.0	14
28	Viscoelasticity of Quartz and Kaolin Slurries in Seawater: Importance of Magnesium Precipitates. Metals, 2019, 9, 1120.	2.3	13
29	Kinetic modeling of the leaching of LiCoO <sub>2</sub> with phosphoric acid. Journal of Materials Research and Technology, 2020, 9, 14017-14028.	5.8	13
30	Extraction of Titanium from Low-Grade Ore with Different Leaching Agents in Autoclave. Metals, 2020, 10, 497.	2.3	13
31	Leaching of Silver and Gold Contained in a Sedimentary Ore, Using Sodium Thiosulfate; A Preliminary Kinetic Study. Metals, 2020, 10, 159.	2.3	13
32	Submarine Tailings in Chile "A Review. Metals, 2021, 11, 780.	2.3	12
33	Analysis of sodium polyacrylate as a rheological modifier for kaolin suspensions in seawater. Applied Clay Science, 2019, 183, 105328.	5.2	11
34	Reducing-Effect of Chloride for the Dissolution of Black Copper. Metals, 2020, 10, 123.	2.3	11
35	Initial investigation into the leaching of manganese from nodules at room temperature with the use of sulfuric acid and the addition of foundry slag "Part II. Separation Science and Technology, 2021, 56, 389-394.	2.5	11
36	Molecular Dynamics Study of the Conformation, Ion Adsorption, Diffusion, and Water Structure of Soluble Polymers in Saline Solutions. Polymers, 2021, 13, 3550.	4.5	11

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37	Copper Mineral Leaching Mathematical Models—A Review. <i>Materials</i> , 2022, 15, 1757.	2.9	11
38	Leaching of Oxide Copper Ores by Addition of Weak Acid from Copper Smelters. <i>Metals</i> , 2020, 10, 627.	2.3	10
39	Leaching of Pure Chalcocite with Reject Brine and MnO <sub>2</sub> from Manganese Nodules. <i>Metals</i> , 2020, 10, 1426.	2.3	9
40	Caliche and Seawater, Sources of Nitrate and Chloride Ions to Chalcopyrite Leaching in Acid Media. <i>Metals</i> , 2020, 10, 551.	2.3	9
41	Synthesis of Hydronium-Potassium Jarosites: The Effect of pH and Aging Time on Their Structural, Morphological, and Electrical Properties. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 80.	2.0	9
42	Describing Mining Tailing Flocculation in Seawater by Population Balance Models: Effect of Mixing Intensity. <i>Metals</i> , 2020, 10, 240.	2.3	9
43	Submarine mineral resources: A potential solution to political conflicts and global warming. <i>Minerals Engineering</i> , 2022, 179, 107441.	4.3	8
44	Temporal evolution of the structure of tailings aggregates flocculated in seawater. <i>Minerals Engineering</i> , 2021, 160, 106708.	4.3	7
45	Comparative Study of MnO <sub>2</sub> Dissolution from Black Copper Minerals and Manganese Nodules in an Acid Medium. <i>Metals</i> , 2021, 11, 817.	2.3	7
46	Gangues and Clays Minerals as Rate-Limiting Factors in Copper Heap Leaching: A Review. <i>Metals</i> , 2021, 11, 1539.	2.3	7
47	Treatment of black copper with the use of iron scrap - part I. <i>Hemijaska Industrija</i> , 2020, 74, 237-245.	0.7	7
48	Leaching Chalcocite in Chloride Media—A Review. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 1197.	2.0	7
49	Use of Alternative Water Resources in Copper Leaching Processes in Chilean Mining Industry—A Review. <i>Metals</i> , 2022, 12, 445.	2.3	7
50	Optimization of Cu and Mn Dissolution from Black Coppers by Means of an Agglomerate and Curing Pretreatment. <i>Metals</i> , 2020, 10, 657.	2.3	6
51	Flocculation of Clay-Based Tailings: Differences of Kaolin and Sodium Montmorillonite in Salt Medium. <i>Materials</i> , 2022, 15, 1156.	2.9	6
52	Reducing the Magnesium Content from Seawater to Improve Tailing Flocculation: Description by Population Balance Models. <i>Metals</i> , 2020, 10, 329.	2.3	5
53	Analysis of Kaolin Flocculation in Seawater by Optical Backscattering Measurements: Effect of Flocculant Management and Liquor Conditions. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 317.	2.0	5
54	Global sensitivity analyses of a neural networks model for a flotation circuit. <i>Hemijaska Industrija</i> , 2020, 74, 247-256.	0.7	5

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55	Extraction of Cu(II), Fe(III), Zn(II), and Mn(II) from Aqueous Solutions with Ionic Liquid R4NCy. <i>Metals</i> , 2021, 11, 1585.	2.3	5
56	Dissolution of Chalcopyrite in Presence of Chelating Agent and Hydrogen Peroxide. <i>Transactions of the Indian Institute of Metals</i> , 2022, 75, 273-280.	1.5	5
57	Leaching of Copper Contained in Waste Printed Circuit Boards, Using the Thiosulfate "Oxygen System: A Kinetic Approach. <i>Materials</i> , 2022, 15, 2354.	2.9	5
58	A Novel Recycling Route for Spent Li-Ion Batteries. <i>Materials</i> , 2022, 15, 44.	2.9	5
59	Leaching of Pure Chalcocite in a Chloride Media Using Waste Water at High Temperature. <i>Metals</i> , 2020, 10, 384.	2.3	4
60	Use of the O <sub>2</sub> -Thiosemicarbazide System, for the Leaching of: Gold and Copper from WEEE & Silver Contained in Mining Wastes. <i>Materials</i> , 2021, 14, 7329.	2.9	4
61	Solvent Extraction of Metal Ions from Synthetic Copper Leaching Solution Using R4NCy. <i>Metals</i> , 2022, 12, 1053.	2.3	4
62	Improving the Flocculation Performance of Clay-Based Tailings in Seawater: A Population Balance Modelling Approach. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 782.	2.0	3
63	Use of Multi-Anionic Sodium Tripolyphosphate to Enhance Dispersion of Concentrated Kaolin Slurries in Seawater. <i>Metals</i> , 2021, 11, 1085.	2.3	3
64	Reducing Magnesium within Seawater Used in Mineral Processing to Improve Water Recovery and Rheological Properties When Dewatering Clay-Based Tailings. <i>Polymers</i> , 2022, 14, 339.	4.5	3
65	Estimating the Shear Resistance of Flocculated Kaolin Aggregates: Effect of Flocculation Time, Flocculant Dose, and Water Quality. <i>Polymers</i> , 2022, 14, 1381.	4.5	3
66	Comparative Study of the Dissolution of LCO in HCl Medium with and without H <sub>2</sub> O <sub>2</sub> . <i>Metals</i> , 2022, 12, 727.	2.3	3
67	Flow-Type Landslides Analysis in Arid Zones: Application in La Chimba Basin in Antofagasta, Atacama Desert (Chile). <i>Water (Switzerland)</i> , 2022, 14, 2225.	2.7	3
68	Representation for a prototype of recommendation system of operation mode in copper mining. , 2019, , .		2
69	Mapping of the Perception of Theft Crimes from Analysis of Newspaper Articles Online. , 2020, , .		2
70	Temporal Variography for the Evaluation of Atmospheric Carbon Dioxide Monitoring. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2022, 15, 80-88.	4.9	2
71	Mineral Leaching Modeling Through Machine Learning Algorithms - A Review. <i>Frontiers in Earth Science</i> , 2022, 10, .	1.8	2
72	Environmental analysis of the current situation of Chilean copper smelters. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	1

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73	Treatment methods for the recovery of marine nodules. AIP Conference Proceedings, 2020, , .	0.4	1
74	Scale Effect and Correlation between Uniaxial Compressive Strength and Point Load Index for Limestone and Travertine. Applied Sciences (Switzerland), 2021, 11, 3672.	2.5	1
75	Chalcopyrite leaching with ionic liquid based on idimazolium, chloride and pyrite in an oxygenated medium. AIP Conference Proceedings, 2020, , .	0.4	0
76	Chalcopyrite leaching with ionic liquid based on idimazolium, chloride and pyrite. AIP Conference Proceedings, 2020, , .	0.4	0
77	A comprehensive analytical model for copper extraction from chalcocite in chloride media. AIP Conference Proceedings, 2020, , .	0.4	0
78	Study of Molybdenite Floatability: Effect of Clays and Seawater. Materials, 2022, 15, 1136.	2.9	0